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ANNUAL SUMMARY

OF

BIRTHS, DEATHS, AND CAUSES OF DEATH

IN

LONDON,

AND OTHER GREAT TOWNS,

1883.

PUBLISHED BY THE AUTHORITY OF THE REGISTRAR GENERAL OF BIRTHS, DEATHS, AND MARRIAGES IN ENGLAND.

LONDON:
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PRINTERS TO THE QUEEN'S MOST EXCELLENT MAJESTY.
FOR HER MAJESTY'S STATIONERY OFFICE.

1884.

REGISTRATION LONDON.

AREA.—The Area of Registration London is 78,052 acres or 122 square miles, including 3625 acres of water; this is equal to 31,585 hectares, or 316 square kilometers. The length of the streets androads is more than 1600 miles. The Area of London being 122 square miles is equal to a square of about 11 miles to the side.

ELEVATION.—The population of London resides at a mean elevation of 39 feet (11·9 metres) above Trinity high-water mark; the elevation varying from 11 feet (3·4 metres) below high-water mark in Plumstead Marshes, to 429 feet (131 metres) above high-water mark in Hampstead.

HOUSES.—At the Census in 1881 there were within this area 486,186 inhabited houses, containing an average of 7·8 persons to a house, exactly corresponding with the proportion in 1861 and 1871.

ANNUAL RATEABLE VALUE.—The Annual Rateable Value of Property in the Metropolis, in April 1881, as assessed in accordance with the Valuation (Metropolis) Act, 1869 = £27,402,509.* (For Annual Rateable Value of Greater London in 1881, see Table 8.)

DENSITY (1883).—125 persons to a hectare; 52·5 persons to an acre; 32,425 to a square mile.

ANNUAL RATE OF INCREASE OF POPULATION PER CENT. . { 1861–71 . . 1·50 / 1871–81 . . 1·61

1883.

POPULATION (Estimated to the middle of the year.)	Males .	1,863,108	PERSONS.	3,955,814
	Females .	2,092,706		
BIRTHS	Males .	68,047	PERSONS.	133,656
	Females .	65,609		
ANNUAL RATE OF BIRTHS PER 1000 OF THE POPULATION				33·9
DEATHS	Males .	41,481	PERSONS.	80,578
	Females .	39,097		
ANNUAL RATE OF MORTALITY PER 1000	Males .	22·3	PERSONS.	20·4
	Females .	18·7		
EXCESS OF REGISTERED BIRTHS OVER DEATHS				53,078
ESTIMATED INCREASE OF POPULATION				63,045

* This amount represents the Annual Rateable Value of Property within the District of the Metropolitan Board of Works, as defined by the Metropolis Local Management Act, 1855 (18 & 19 Vict. c. 120.) The District of the Metropolitan Board of Works is identical with that adopted for Poor Law and Registration purposes, except that the hamlet of Penge, in Croydon District, is situated within the District of the Metropolitan Board of Works, but is excluded from Registration London; and the hamlet of Mottingham, in Lewisham District, is included with Registration London, but excluded from the District of the Metropolitan Board.

ANNUAL SUMMARY.

LONDON,

AND OTHER GREAT TOWNS,

1883.

General Register Office, Somerset House,
14th April 1884.

The Great Towns of England.

The general death-rate in 1883, that is to say, the number of deaths in the year to 1000 inhabitants without distinction of age or sex, varied very much in the twenty-eight great towns, the range extending from 17·90 in Bristol to 27·64 in Manchester, as is shown in the Table on page v.

It must, however, be borne in mind that any comparison made between different towns in regard to the healthiness of their respective populations, if based simply on their general death-rates, as defined above, is liable to lead to a more or less erroneous conclusion, unless it has been previously ascertained that the towns thus put into comparison show no material differences from each other in respect of the sex and age distribution of their populations; for it is self-evident that if one town contain a much larger proportion either of very old persons or of very young children than another, its general death-rate will necessarily be higher than that of such other, although the two are on an exact equality as regards the death-rates at the several age-periods; and so also will it be, if the one town has a much larger proportion of males than the other, inasmuch as the male death-rate is almost invariably higher than the female death-rate.

Thus, taking the population of each of the twenty-eight towns, with the age and sex distribution shown at the last census, and applying to it the mean annual death-rate for each sex, at each age-period, in England and Wales in 1871–80, we have a series of death-rates, which are given in column 1 of the Table on page v. It will at once be seen that these rates differ considerably from each other and from the rate in England and Wales as a whole. The differences are caused simply and wholly by difference in sex and age distribution, the rates being those which would have been recorded in the towns as their general death-rates, had their male and female populations been equally healthy with the male and female population of the entire country

at each separate age-period. It will be convenient to speak of these hypothetical death-rates in column 1 as the *standard* rates.

Before, therefore, the *recorded* death-rates in the towns can be fairly put into comparison with each other, as measures of healthiness, they must be corrected for these inherent differences of the *standard* rates; and it is plain that the correction for 1871–80 will be duly made if the *recorded* rate in each town be multiplied by the number against the town in column 2; this number being obtained by dividing the annual death-rate in England and Wales in that decade (21·27) by the *standard* death-rate in column 1.

These numbers in column 2, though in strict accuracy they are only applicable for the correction of the mean annual 1871–80 rates, may yet be fairly used as constants for the correction of the recorded death-rates in the present decade and in individual years; for the age and sex distribution in a town scarcely changes under ordinary circumstances from decade to decade; and though the correction figure which is accurate when applied to the rate of an entire decade may not be equally accurate when applied to the rate in an individual year, yet it was found on trial that when two individual years were selected, as different as possible from each other, the one having been extremely hot and therefore dangerous to the young and the other extremely cold and dangerous to the aged, the error due to the use of the decennial correction figure as a constant, instead of a special correction figure for the year, was so small that it might practically be disregarded.

The figures in column 2 will, therefore, be used in this Annual Summary, and until a new census be taken, as Factors for correction of the recorded general death-rates.

The recorded death-rates in the several great towns in 1883 are given in column 3; multiplying these by the Factors, we obtain the corrected death-rates in column 4. These are the death-rates that would have been recorded in each town, had its population been identical, so far as age and sex distribution are concerned, with the population of England and Wales; and it will at once be seen, on comparing the recorded with the corrected rates, that the mortality of the towns as compared with that of the entire country is, with but few exceptions, very much greater than would be concluded from the recorded general death-rates. The towns contain, as a rule, a much smaller proportion of aged persons and a much higher proportion of persons in the prime of life, as also a much higher proportion of females, than does the country at large; and though these advantages are somewhat counterbalanced by an excess in the proportion of children, they are so to a limited extent only.

The great differences in mortality that exist between one great town and another, and between the several towns and England and Wales as a whole, may perhaps be more readily apprehended, if the mortality in England and Wales be represented by 1000, and that in each town, after correction for age and sex distribution, by its proportional figure. This has been done in column 5, and it will there be seen that there are but four of the great towns, namely, Bristol, Norwich, Derby, and Portsmouth, in which the mortality was below that of the entire country, while there are some, namely, Liverpool and Manchester, in which the mortality showed an excess of 50 per cent.

It may naturally be asked, of what use are the general death-rates, as usually given, if they cannot be accepted without further and considerable correction.

In the first place, if the death-rate in any given town or other area in one year be compared with its death-rates in other years no correction is required; for, as before said, the age and sex distribution in an individual town or other area remains practically constant; and, secondly, although it is doubtlessly true that the general death-rates of towns or other areas cannot safely be used for accurate comparison between such towns or areas in respect of healthiness without further correction, yet they serve as a very valuable approximative indication; for if the column 3 be compared with column 4, it will be seen that whether the towns be arranged according to their recorded, or according to their corrected death-rates, the order will scarcely be changed. The correction simply alters the amount of difference between the towns, leaving the position in which they stand to each other but slightly changed.

RECORDED and CORRECTED DEATH-RATES per 1000 Persons living in 28 Great Towns in 1883.

TOWNS, in the order of their Corrected Death-rates.	Standard Death-rate.*	Factor for Correction for Sex and Age Distribution.†	Recorded Death-rate.	Corrected Death-rate.‡	Comparative Mortality Figure.§
Cols.	1.	2.	3.	4.	5.
28 TOWNS -	19·96	1·0657	21·57	22·99	1178
Bristol - - - -	20·55	1·0351	17·90	18·53	949
Norwich - - - -	22·24	0·9565	19·64	18·79	963
Derby - - - -	20·45	1·0402	18·09	18·82	964
Portsmouth - - -	20·65	1·0301	18·61	19·17	982
Brighton - - - -	20·66	1·0296	19·22	19·79	1014
Bradford - - - -	19·26	1·1045	18·34	20·26	1038
Leicester - - - -	20·31	1·0474	19·40	20·32	1041
Plymouth - - -	21·48	0·9903	20·86	20·66	1058
Birkenhead - - -	19·89	1·0695	19·86	21·24	1088
London - - - -	20·04	1·0615	20·44	21·70	1112
Halifax - - - -	19·58	1·0864	20·04	21·77	1115
Wolverhampton - -	20·63	1·0311	21·27	21·93	1123
Cardiff - - - -	19·60	1·0853	20·21	21·93	1123
Nottingham - - -	20·07	1·0599	21·26	22·53	1154
Birmingham - - -	19·95	1·0663	21·34	22·75	1165
Huddersfield - - -	19·37	1·0982	21·30	23·39	1198
Hull - - - -	20·62	1·0316	22·80	23·52	1205
Bolton - - - -	19·41	1·0959	21·68	23·76	1217
Salford - - - -	19·54	1·0886	22·41	24·40	1250
Oldham - - - -	19·17	1·1097	22·00	24·41	1251
Sheffield - - - -	19·78	1·0754	22·93	24·66	1263
Leeds - - - -	19·90	1·0689	23·26	24·86	1274
Sunderland - - -	20·43	1·0412	24·54	25·55	1309
Blackburn - - -	19·52	1·0898	24·50	26·70	1368
Newcastle-on Tyne - -	20·10	1·0583	25·46	26·94	1380
Preston - - - -	19·59	1·0859	25·48	27·67	1418
Liverpool - - -	19·39	1·0971	26·69	29·28	1500
Manchester - - -	19·09	1·1143	27·64	30·80	1578

* The Standard Death-rate signifies the death-rate at all ages calculated on the hypothesis that the rate at each of twelve age-periods in each town was the same as in England and Wales during the ten years 1871–80, the Death-rate at all ages in England and Wales during that period being 21·27 per 1,000.

† The Factor for Correction is the figure by which the Recorded Death-rate should be multiplied in order to correct for variations of sex and age distribution.

‡ The Corrected Death-rate is the Recorded Death-rate multiplied by the Factor for Correction.

§ The Comparative Mortality Figure represents the Corrected Death-rate in each town compared with the Recorded Death-rate, at all ages, in England and Wales in 1883 taken as 1000.

London.

The year 1883 was remarkable in London for the lowness of its marriage, birth, and deaths rates. The marriage-rate and the death-rate were lower than any previously recorded; and the birth-rate was lower than any recorded in the previous 22 years.

Marriages.

The marriages celebrated in London in 1883 numbered 35,297, giving a proportion of 17·8 persons married to 1000 inhabitants. This was a lower marriage-rate than any previously recorded, the nearest to it having been 18·0, which was the rate in 1879. The marriage-rate reached its highest point in 1865, when it was 22·3, and gradually declined from that date, though with some fluctuations, until in 1883, as before mentioned, it had fallen to 17·8.

Births.

The births registered in London in the year (52 weeks) numbered 133,656, and were in the proportion of 33·9 to 1000 inhabitants. This was the lowest birth-rate recorded since 1860, in which year the rate was only 33·6. The lowness of the birth-rate was more than compensated by the still greater reduction of the death-rate; for the registered births exceeded the registered deaths by 53,078, against excesses of 51,478, 51,558, and 50,396 respectively, in the three preceding years. The natural growth of the population of London, that is to say, its increase irrespectively of immigration and emigration, since the last Census, has by itself been very nearly at the rate of 1000 per week.

Deaths.

The deaths registered in the year numbered 80,578, and were in the proportion of 20·4 per 1000 inhabitants. This was the lowest death-rate on record in London, the nearest approach to it having been in 1850, when the rate was 21·0. The highest death-rate as yet recorded was in 1849, when it reached 30·1, mainly owing to the great mortality from cholera. Omitting this cholera year, the highest rate was in 1847, when it reached 26·8.

The death-rate was, as usual, highest in the East Districts (24·1), and in the Central Districts (23·2), and was lowest in the North Districts (19·1). In the South Districts it was 19·4, and in the West Districts 19·5.

Had the deaths in 1883 equalled the average annual number in the preceding decade 1873–82, corrected for increase of population (*see* Table 16), 6,726 persons would have died in the year, who, as it was, were alive at its close.

A small share in the diminished mortality of 1883 must be attributed simply to the fact that the birth-rate in that year was excessively low, so that the proportion of infants in the population was considerably below the average. Had the birth-rate in 1883 been equal to the mean annual birth-rate in the preceding decennium 5,509 more infants would have been born in the course of it, and this increased number of infants would of course have slightly raised the death-rate, as the mortality of infants is always high. Not only, however, were there fewer infants born, but the mortality of these infants was exceptionally low. The deaths of infants in their first year of life were to the births in the proportion of 146 to

1000; whereas the proportion in the preceding decennium was 155. Still even with a mortality of only 146 per 1000, the 5,509 additional infants would have given 804 additional deaths, and would have raised the general death-rate from 20·4 to 20·6; a difference, however, too small to be of any practical importance.

The extremely low death-rate of 1883 was in great part attributable to the comparatively equable temperature that prevailed throughout the year, there having been neither excessive cold in the winter months, nor great heat in the summer, so that the mortality both from diseases of the respiratory organs and from disorders of the bowels was far below the average. The following Table, which is a summary of the figures given in Table 16, shows the amount of life saved, and the amount of life lost in the year, as compared with the previous decade under each of the more important headings among the causes of death.

Diminution or Excess of Deaths in 1883, as compared with Annual Deaths in 1873–82, corrected for growth of Population.

Cause of Death.	Diminution in 1883.	Excess in 1883.
Small-pox	809	—
Measles	—	277
Scarlet Fever	458	—
Typhus	106	—
Whooping cough	1,655	—
Diphtheria and Croup	—	503
Simple and Ill-defined Fevers	145	—
Enteric Fever	24	—
Diarrhœa, &c.	790	—
Erysipelas	76	—
Alcoholism, &c.	—	77
Cancer	—	283
Phthisis and Tubercular Diseases	613	—
Premature Birth	—	365
Diseases of Nervous System	583	—
Diseases of Circulatory System	—	417
Diseases of Respiratory System	2,451	—
Diseases of Urinary System	—	300
Childbirth	—	128
Accident	149	—
Murder, Manslaughter	22	—
Suicide	—	27
	7,881	2,377
All other Causes together	1,222	—
All Causes	6,726	—

Accidental deaths.—The deaths attributed to accidents numbered 2552, and were 150 below the annual average corrected for difference of population. Amongst these deaths were 222, which were caused by horses or vehicles in the streets. The following table shows the proportion of these deaths due to each kind of vehicle, with the corresponding particulars for each of the ten preceding years. The most noticeable fact in the table is the diminution of fatal accidents from carts, vans, and waggons, and the increase of fatal accidents from cabs. The former were 27 per cent. fewer than the annual average of the previous decade, while the latter were 74 per cent. above the average.

Year.	Description of Vehicle, &c.									Total.
	Horse, &c.	Carriage.	Omnibus.	Tram-car.	Cab.	Cart.	Van, wagon.	Dray.	Others not described.	
1873 - -	13	10	12	17	28	56	75	4	2	217
1874 - -	28	11	17	14	33	36	63	4	5	211
1875 - -	11	15	18	9	39	55	76	6	2	231
1876 - -	13	4	17	12	24	56	78	6	7	217
1877 - -	16	13	13	4	26	56	92	5	2	227
1878 - -	17	12	14	10	34	63	73	11	3	237
1879 - -	16	13	17	18	36	57	66	8	5	236
1880 - -	12	11	20	17	39	43	69	7	2	220
1881 - -	13	14	21	23	31	58	79	9	4	252
1882 - -	12	15	19	23	37	60	95	5	5	271
1883 - -	6	12	16	25	57	45	50	7	4	222

Uncertified deaths.—In 984 cases, being 1·22 per cent. of all deaths registered, the cause of death was not certified either by a Coroner or by a registered medical practitioner. The Metropolitan Registrars are instructed to supply special information concerning uncertified deaths, and the following table embodies this information, which, however, must be regarded as of only approximative accuracy.

Ages.	Total. uncertified Deaths.	Medical Attendant refused Certificate.		Attended by			No Medical Attendance.
		Altogether.	Made informal Statement.	Unregistered Assistant.	Unregistered Practitioner.	Midwife.	
Under 1 - -	513	6	35	47	45	127	253
1–5 - - -	153	2	18	15	28	—	90
5–60 - -	156	7	15	6	14	—	114
60 or over -	162	7	10	5	13	—	127
All Ages -	984	22	78	73	100	127	584

It will be noticed that 513 deaths, or more than half of the whole number, were of infants in the first year of life; and that in 219 of these 513 cases either an unregistered medical man or a midwife was in attendance. In the remaining 294 cases, or 57 per cent. of all these infantile uncertified deaths, there was no medical attendant of any kind, for though in 41 cases a medical man appears to have been consulted, yet as he either refused altogether to certify, or only certified informally, it may be concluded that his attendance was at most nominal.

Secondly, it will be noticed that of all the uncertified deaths, at all ages, 300 or 31 per cent. were of persons who were attended by some or other kind of unregistered practitioner or midwife, while the remaining 684 or 69 per cent. were without medical attendance of any kind, or at any rate without such as justified the attendant in giving a certificate.

Greater London.—Greater London, which is co-extensive with the Metropolitan and City Police Districts, had, in the middle of 1883, an estimated population little short of five millions of persons. The death-rate in this population was 19·7 per 1000, against 20·6 in the previous year. We have seen that the rate in Inner or Registration London was 20·4, whereas in the Outer Ring of suburban districts (with a population slightly exceeding a million persons) it did not exceed 16·7. The death-rate from the principal zymotic diseases was 2·58 per 1000 in Greater London, and 2·74 and 1·98 respectively in Inner London and the Outer Ring. The rate of infant mortality, measured by the proportion of deaths under one year to registered births, was 141 per 1000 in Greater London; in Inner London the rate was 146, and lower than in any year since 1877, while it did not exceed 121 per 1000 in the Outer Ring of suburban districts.

Health of Foreign Cities.—The rate of mortality in the three principal Indian cities during 1883 averaged 31·8 per 1000; it was 28·1 in Calcutta, 30·5 in Bombay, and 39·4 in Madras. Measles caused 653, whooping-cough 859, and scarlet fever 443 deaths in Madras during the year. In twenty-three of the largest European cities the mean rate of mortality was 27·7, and exceeded by 6·1 the mean rate in the twenty-eight great English towns. The lowest rates in these European cities were 17·3 in Christiania, 22·8 in Geneva, 23·2 in Copenhagen, 23·6 in the Hague, and 23·7 in Stockholm; the rates in the other towns ranged upwards to 32·5 in Munich, 32·6 in St. Petersburg, and 35·3 in Prague. The rate of mortality in Paris was 25·5 per 1000, showing a further decline from the rates in 1881 and 1882, which were 28·6 and 26·3 respectively; it exceeded, however, the rate in London by as much as 5·1 per 1000. The 57,024 deaths registered during 1883 included 2060 from typhoid fever, 1951 from diphtheria and croup, 1058 from measles, and 458 from small-pox. The death-rate from typhoid fever in Paris, though it showed a considerable decline from that recorded in 1882, was nearly four times as great as in London. Small-pox was more or less fatally prevalent in Brussels, Rotterdam, St. Petersburg, and Prague. In Berlin, the third European city as regards population, the rate of mortality was equal to 29·0 per 1000, and showed a considerable increase upon the declining rates in the three preceding years; diphtheria was epidemic throughout the year, especially during the last quarter, and caused no fewer than 2640 deaths. The death-rate from diarrhœal diseases in Berlin was also excessive, being equal to 4·42 per 1000. Scarlet fever and measles were fatally prevalent in St. Petersburgh and Berlin. In four of the largest American cities the death-rate averaged 24·5; it was 22·2 in Philadelphia, 23·0 in Baltimore, 23·4 in Brooklyn, and 27·4 in New York. The rates in each of these cities, except Baltimore, showed a decline from those recorded in 1882. Small-pox caused 633 deaths in Baltimore, scarlet fever 744 in New York, and typhoid fever 620 in Philadelphia. Scarlet fever and diphtheria were prevalent in each of these American cities.

TABLE 1.—28 Towns.—Population; Persons to an Acre; Births, Deaths; Mean Temperature, Rainfall; in the 52 Weeks ending 29th Dec. 1883.

CITIES AND BOROUGHS.	ESTIMATED POPULATION in the middle of the Year 1883.*	Persons to an Acre. (1883.)	Registered in 52 Weeks ending 29th Dec. 1883.		The DEATHS registered in the 52 Weeks include													MEAN TEMPERATURE in 52 Weeks ending 29th Dec. 1883.	RAINFALL in 52 Weeks ending 29th Dec. 1883.	CITIES AND BOROUGHS.
					Deaths of		Deaths from													
			BIRTHS.	DEATHS.	Infants under 1 Year of Age.	Persons aged 60 Years and upwards.	Diseases in Cols. 8-14.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Fever.	Diarrhœa.	Violence.	Inquest Cases.	Deaths in Public Institutions.	Uncertified Causes of Death.			
Cols.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.	Cols.
																			°	Inches.	
28 TOWNS	8,620,975	34·4	297921	185347	46468	38003	24531	414	4292	4878	1387	3922	2973	6665	6577	12224	29996	4783	—	—	28 TOWNS.
LONDON	3,955,814	52·5	133656	80578	19487	17467	10801	134	2420	1989	951	1582	1081	2644	2997	5834	16628	984	49·4	21·98	LONDON.
BRIGHTON	111,262	44·3	3237	2131	471	593	255	–	54	11	4	60	28	98	58	70	357	60	49·0	24·13	BRIGHTON.
PORTSMOUTH	131,478	30·4	4631	2438	641	594	292	1	10	17	22	56	99	87	53	139	292	21	—	—	PORTSMOUTH.
NORWICH	89,612	12·0	3046	1754	458	577	90	–	7	3	5	17	10	48	36	112	153	54	—	—	NORWICH.
PLYMOUTH	74,977	51·1	2354	1559	354	419	157	–	26	–	12	61	23	35	40	103	135	12	49·6	33·22	PLYMOUTH.
BRISTOL	212,779	45·9	6839	3795	911	1060	261	–	35	34	20	39	36	97	132	281	608	114	48·1	32·70	BRISTOL.
WOLVERHAMPTON	77,557	22·8	2804	1644	408	412	126	7	–	23	4	20	15	57	54	89	328	112	45·6	29 73	WOLVERHAMPTON.
BIRMINGHAM	414,846	49·4	14716	8824	2361	1755	1285	110	153	321	48	177	76	400	362	748	1478	97	—	—	BIRMINGHAM.
LEICESTER	129,483	40·5	4787	2503	903	528	304	–	14	66	6	59	12	147	67	235	260	71	48·1	32·49	LEICESTER.
NOTTINGHAM	199,349	20·0	7846	4224	1284	907	426	2	14	59	34	76	73	168	138	253	393	103	47·6	30·55	NOTTINGHAM.
DERBY	85,574	24·8	3067	1543	438	355	132	1	22	17	1	32	19	40	43	135	183	32	—	—	DERBY.
BIRKENHEAD	88,700	23·0	3130	1756	457	359	162	–	37	22	2	30	29	42	61	145	190	51	—	—	BIRKENHEAD.
LIVERPOOL	566,753	108·8	19907	15074	3686	2182	2536	26	618	388	51	395	540	518	658	737	2652	818	—	—	LIVERPOOL.
BOLTON	107,862	44·9	3720	2331	649	475	240	–	2	6	6	34	30	162	71	148	206	58	—	—	BOLTON.
MANCHESTER	339,252	79·0	12157	9344	2146	1682	1205	1	255	237	29	248	86	349	281	757	1793	221	—	—	MANCHESTER.
SALFORD	190,465	36·8	6778	4254	1157	693	633	–	155	81	22	101	73	201	113	186	478	198	—	—	SALFORD.
OLDHAM	119,071	25·2	4185	2611	664	492	179	2	6	21	8	38	26	78	51	61	238	173	—	—	OLDHAM.
BLACKBURN	108,460	15·6	4228	2648	733	495	304	–	3	52	–	32	96	121	59	87	228	78	—	—	BLACKBURN.
PRESTON	98,564	26·5	3751	2503	786	471	419	–	3	64	14	30	56	252	38	55	193	128	—	—	PRESTON.
HUDDERSFIELD	84,701	8·1	2495	1798	436	396	140	–	33	7	2	43	17	38	47	62	159	80	—	—	HUDDERSFIELD.
HALIFAX	75,591	20·1	2187	1510	322	422	78	–	2	10	4	10	30	22	33	55	173	145	—	—	HALIFAX.
BRADFORD	204,807	19·0	5961	3743	869	799	301	–	22	35	6	71	53	114	140	245	296	114	47·3	34·48	BRADFORD.
LEEDS	321,611	14·9	11118	7454	1849	1360	1299	11	12	672	43	157	123	281	196	486	684	232	48·1	31·94	LEEDS.
SHEFFIELD	295,497	15·0	10812	6755	1764	1148	1171	2	142	461	20	173	97	276	173	266	590	312	—	—	SHEFFIELD.
HULL	176,296	22·3	6458	4006	1102	834	562	7	12	77	21	247	63	135	145	166	385	217	46·8	30·27	HULL.
SUNDERLAND	121,117	39·9	5054	2962	680	567	302	50	16	39	19	19	74	85	284	342	306	128	—	—	SUNDERLAND.
NEWCASTLE	149,464	27·8	5478	3792	913	671	644	59	208	123	11	54	76	113	139	267	405	135	—	—	NEWCASTLE.
CARDIFF	90,033	12·2	3519	1813	539	290	227	1	11	43	22	61	32	57	108	160	205	35	—	—	CARDIFF.

* The figures in this column are the numbers enumerated at the Census in April 1881, raised to the middle of 1883 by the addition of 2½ times the annual rate of increase that prevailed between 1871 and 1881.

TABLE 2.—**28 Towns.—Birth-rate, Death-rate,** and **Analysis** of the **Mortality** in the **52 Weeks** ending **29th Dec. 1883.**

CITIES AND BOROUGHS.	ANNUAL RATES PER 1000 PERSONS LIVING.														DEATHS under 1 Year to 1000 Births.	ANNUAL RATE of MORTALITY per 1000 living.		PERCENTAGE to Total Deaths.			CITIES AND BOROUGHS.
	BIRTHS in 52 Weeks ending 29th Dec. 1883.	Total Deaths. 52 or 53 Weeks ending				Deaths from										Aged 1 to 60 Years.	Aged 60 Years and upwards.	Inquest Cases.	Deaths in Public Institutions.	Uncertified Causes of Death.	
		1st Jan. 1881.	31st Dec. 1881.	30th Dec 1882.	29th Dec. 1883.	Diseases in Cols. 7-13.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Fever.	Diarrhœa.	Violence.							
Cols.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.	Cols.
28 TOWNS	34·7	22·7*	21·7*	22·3	21·6	2·86	0·05	0·50	0·57	0·16	0·46	0·35	0·77	0·77	156	12·9	75·3	6·6	16·2	2·6	28 TOWNS.
LONDON	33·9	21·6	21·2	21·4	20·4	2·74	0·03	0·61	0·51	0·24	0·40	0·27	0·68	0·76	146	12·2	71·3	7·2	20·6	1·2	LONDON.
BRIGHTON	29·2	19·8	19·0	21·7	19·2	2·30	0·00	0·49	0·10	0·04	0·54	0·25	0·88	0·52	146	10·7	68·5	3·3	16·8	2·8	BRIGHTON.
PORTSMOUTH	35·3	19·8	19·7	21·5	18·6	2·23	0·01	0·08	0·13	0·17	0·43	0·76	0·65	0·40	138	10·1	77·3	5·7	12·0	0·9	PORTSMOUTH.
NORWICH	34·1	24·3	19·5	20·6	19·6	1·01	0·00	0·08	0·03	0·06	0·19	0·11	0·54	0·40	150	9·2	66·6	6·4	8·7	3·1	NORWICH.
PLYMOUTH	31·5	25·1	19·9	21·2	20·9	2·10	0·00	0·35	0·00	0·16	0·82	0·31	0·46	0·54	150	11·8	67·6	6·6	8·7	0·8	PLYMOUTH.
BRISTOL	32·3	21·0	19·6	19·2	17·9	1·23	0·00	0·17	0·16	0·09	0·18	0·17	0·46	0·62	133	9·6	71·1	7·4	16·0	3·0	BRISTOL.
WOLVERHAMPTON	36·3	21·3	21·2	22·4	21·3	1·63	0·09	0·00	0·30	0·05	0·26	0·19	0·74	0·70	146	11·7	93·8	5·4	20·0	6·8	WOLVERHAMPTON.
BIRMINGHAM	35·6	20·7	20·0	20·9	21·3	3·11	0·27	0·37	0·78	0·12	0·43	0·18	0·96	0·88	160	12·4	83·9	8·5	16·7	1·1	BIRMINGHAM.
LEICESTER	37·1	25·0	21·8	20·1	19·4	2·36	0·00	0·11	0·51	0·05	0·46	0·09	1·14	0·52	189	9·2	65·1	9·4	10·4	2·8	LEICESTER.
NOTTINGHAM	39·5	23·8	22·4	23·6	21·3	2·14	0·01	0·07	0·30	0·17	0·38	0·37	0·84	0·69	164	11·4	62·7	6·0	9·3	2·4	NOTTINGHAM.
DERBY	36·0	—	—	18·7	18·1	1·55	0·01	0·26	0·20	0·01	0·38	0·22	0·47	0·50	143	9·7	64·3	8·7	11·9	2·1	DERBY.
BIRKENHEAD	35·4	—	—	20·1	19·9	1·83	0·00	0·42	0·25	0·02	0·34	0·33	0·47	0·69	146	11·5	86·7	8·3	10·8	2·9	BIRKENHEAD.
LIVERPOOL	35·2	27·1	26·7	26·5	26·7	4·49	0·05	1·09	0·69	0·09	0·70	0·96	0·91	1·16	185	17·7	81·3	4·9	17·6	5·4	LIVERPOOL.
BOLTON	34·6	—	—	23·0	21·7	2·23	0·00	0·02	0·06	0·06	0·32	0·28	1·49	0·66	174	12·3	85·5	6·3	8·8	2·5	BOLTON.
MANCHESTER	36·0	26·9	25·5	26·7	27·6	3·56	0·00	0·75	0·70	0·09	0·73	0·25	1·04	0·83	177	17·8	98·3	8·1	19·2	2·4	MANCHESTER.
SALFORD	35·7	28·0	22·6	23·2	22·4	3·33	0·00	0·82	0·43	0·12	0·53	0·38	1·05	0·60	171	13·8	73·6	4·4	11·2	4·7	SALFORD.
OLDHAM	35·3	24·7	22·8	24·6	22·0	1·51	0·02	0·05	0·18	0·07	0·32	0·22	0·65	0·43	159	13·4	80·3	2·3	9·1	6·6	OLDHAM.
BLACKBURN	39·1	—	—	25·1	24·5	2·81	0·00	0·03	0·48	0·00	0·30	0·89	1·11	0·55	173	14·3	90·1	3·3	8·6	2·9	BLACKBURN.
PRESTON	38·2	—	—	27·6	25·5	4·27	0·00	0·03	0·65	0·14	0·31	0·57	2·57	0·39	210	13·9	82·2	2·2	7·7	5·1	PRESTON.
HUDDERSFIELD	29·6	—	—	22·3	21·3	1·66	0·00	0·39	0·08	0·02	0·51	0·20	0·46	0·56	175	12·5	83·1	3·4	8·8	4·4	HUDDERSFIELD.
HALIFAX	29·0	—	—	20·4	20·0	1·04	0·00	0·03	0·13	0·05	0·13	0·40	0·30	0·44	147	11·1	102·9	3·6	11·5	9·6	HALIFAX.
BRADFORD	29·2	22·9	19·7	21·2	18·3	1·47	0·00	0·11	0·17	0·03	0·35	0·26	0·55	0·69	146	11·1	80·6	6·5	7·9	3·0	BRADFORD.
LEEDS	34·7	22·0	21·6	23·2	23·3	4·05	0·03	0·04	2·10	0·13	0·49	0·38	0·88	0·61	166	14·5	80·9	6·5	9·2	3·1	LEEDS.
SHEFFIELD	36·7	22·9	21·1	21·7	22·9	3·98	0·01	0·48	1·57	0·07	0·58	0·33	0·94	0·59	163	14·2	83·7	3·9	8·7	4·6	SHEFFIELD.
HULL	36·8	23·4	23·8	23·2	22·8	3·20	0·04	0·07	0·44	0·12	1·41	0·36	0·76	0·83	171	13·0	75·0	4·1	9·6	5·4	HULL.
SUNDERLAND	41·9	25·0	20·9	26·5	24·5	2·50	0·41	0·13	0·32	0·16	0·16	0·61	0·71	2·35	135	15·6	83·3	11·5	10·3	4·3	SUNDERLAND.
NEWCASTLE	36·8	22·8	21·8	23·1	25·5	4·32	0·40	1·40	0·83	0·07	0·36	0·51	0·75	0·93	167	16·2	82·6	7·0	10·7	3·6	NEWCASTLE.
CARDIFF	39·2	—	—	20·0	20·2	2·53	0·01	0·12	0·48	0·25	0·68	0·36	0·63	1·20	153	11·8	71·9	8·8	11·3	1·9	CARDIFF.

* The Registrar-General has no means for determining the mortality statistics relating to 1880 and 1881 for the eight towns added to this list at the commencement of 1882; this figure relates, therefore, to the twenty towns previously dealt with in the Weekly Return.

TABLE 3.—**Mean Temperature,** and **Annual Rate** of **Mortality** per 1000 Persons living in **Twenty-eight English Towns,** in each Week of 1883.

Number of Week.	Weeks ending	Mean Temperature at Greenwich.		Annual Rate of Mortality per 1000 in																												
		Fahrenheit.	Centigrade.	Twenty-eight Towns.	London.	Brighton.	Portsmouth.	Norwich.	Plymouth.	Bristol.	Wolverhampton.	Birmingham.	Leicester.	Nottingham.	Derby.	Birkenhead.	Liverpool.	Bolton.	Manchester.	Salford.	Oldham.	Blackburn.	Preston.	Huddersfield.	Halifax.	Bradford.	Leeds.	Sheffield.	Hull.	Sunderland.	Newcastle.	Cardiff.
		°	°																													
	Year (of 52 Weeks ending 29 Dec. 1883.)	49·4	9·66	21·6	20·4	19·2	18·6	19·7	20·9	17·9	21·3	21·4	19·4	21·3	18·1	19·8	26·7	21·7	27·6	22·4	22·0	24·5	25·5	21·3	20·1	18·4	23·3	23·0	22·8	24·5	25·5	20·2
	March Qr (13 weeks)	40·0	4·44	23·8	22·1	19·6	20·0	23·2	24·9	20·2	25·8	23·9	21·2	23·7	18·4	22·4	30·9	25·6	30·2	23·0	25·4	29·2	27·8	21·5	24·6	21·5	25·1	25·8	27·5	27·9	24·7	21·0
	June „ (13 weeks)	52·9	11·61	21·5	20·5	18·0	18·8	19·7	20·8	17·4	21·2	20·9	19·1	20·7	19·6	19·5	26·6	19·4	27·5	20·7	23·4	25·3	23·6	23·6	20·6	17·8	21·9	23·7	25·7	22·0	23·3	20·3
	Sept. „ (13 weeks)	59·7	15·39	19·9	18·8	19·4	18·9	17·6	18·8	15·3	18·6	20·5	18·8	19·6	15·6	16·3	24·8	19·6	24·9	21·2	18·2	19·5	24·8	19·1	15·0	16·4	21·2	21·8	18·0	27·6	27·1	17·3
	Dec. „ (13 weeks)	45·1	7·28	21·2	20·3	19·9	16·8	18·1	18·9	18·7	19·5	20·1	18·6	21·1	18·8	21·1	24·4	22·1	27·9	24·8	21·0	24·0	25·7	21·0	20·0	17·7	24·9	20·5	20·1	20·6	26·7	22·3
1	Jan. 6	46·2	7·89	21·8	20·5	21·1	19·4	19·2	21·6	18·6	24·2	19·9	20·5	18·8	18·9	15·9	30·9	19·4	27·2	20·5	25·0	29·8	22·8	22·8	15·2	16·6	25·5	22·2	26·6	26·3	19·2	16·8
2	„ 13	38·3	3·50	22·4	20·7	14·1	14·7	18·6	27·8	15·4	22·9	22·0	18·5	19·9	9·1	26·5	33·7	24·2	28·9	26·6	24·5	25·5	30·7	18·5	24·2	22·2	26·0	23·1	18·6	28·0	24·4	22·6
3	„ 20	42·9	6·06	23·4	21·9	21·1	16·7	22·1	16·0	19·9	22·9	20·2	14·5	20·9	22·6	23·5	30·7	29·5	31·4	29·3	19·3	23·1	27·0	22·8	22·8	21·1	30·0	26·0	29·0	28·4	21·3	13·9
4	„ 27	38·9	3·83	22·4	20·4	12·7	17·1	23·9	29·9	16·4	25·6	22·9	16·1	18·6	18·3	18·2	31·1	20·3	28·9	26·0	22·8	29·3	21·7	17·9	26·2	21·1	24·3	27·2	30·5	30·6	22·3	19·1
5	Feb. 3	40·3	4·61	23·7	21·7	18·8	17·9	22·1	23·7	18·6	23·6	24·5	20·1	19·9	19·5	24·1	30·9	24·7	32·9	21·9	30·7	34·6	25·4	23·4	29·7	20·4	25·6	25·8	25·5	35·3	23·7	19·1
6	„ 10	42·7	5·95	23·5	21 5	20·2	25·0	18·1	20·9	22·1	21·5	23·9	21·0	20·9	13·4	24·1	33·3	24·7	27·1	26·8	29·4	29·3	24·9	17·3	24·8	23·7	24·2	26·7	25·5	26·7	26·9	16·2
7	„ 17	42·9	6·06	21·9	20·1	17·4	21·8	21·0	22·3	20·1	26·9	23·9	18·1	23·3	18·9	15·3	27·2	21·8	25·5	21·4	18·8	26·0	23·8	26·5	21·4	24·5	22·4	24·4	27·5	21·1	24·4	22·6
8	„ 24	42·8	6·00	22·7	20·5	13·6	19·0	23·3	17·4	17·9	32·3	23·0	23·8	25·1	14·0	21·2	28·3	31·9	29·2	19·2	22·3	31·7	27·5	23·4	22·1	23·7	23·8	27·0	30·5	29·7	23·0	23·2
9	March 3	48·0	6·11	23·0	21·0	20·6	19·0	20·4	29·2	21·6	28·9	23·3	19·3	23·6	18·9	17·6	30·1	22·3	26·5	21·1	22·3	31·7	27·0	19·1	22·8	24·2	22·6	27·5	24·9	25·0	29·3	33·0
10	„ 10	33·8	1·01	23·0	21·7	22·5	17·5	25·6	22·3	21·3	21·5	23·9	19·3	23·3	18·3	24·1	28·0	26·6	29·5	20·0	27·2	28·4	33·4	20·9	22·1	19·1	25·5	20·0	26·9	26·3	24·4	15·6
11	„ 17	34·7	1·50	26·0	24·5	19·2	18·7	30·3	30·6	24·0	22·2	25·7	24·6	35·9	18·9	24·1	34·3	27·1	34·9	18·9	30·2	25·5	37·1	19·7	24·8	21·9	25·5	27·2	28·4	25·9	28·3	22·0
12	„ 24	35·1	1·73	26·1	24·9	24·4	27·0	32·0	30·6	20·6	27·6	23·3	24·2	28·5	18·9	31·2	32·4	28·5	30·9	20·5	23·7	30·3	26·5	21·6	27·6	19·9	27·1	28·8	32·9	28·9	27·9	23·2
13	„ 31	38·6	3·67	29·2	28·3	29·5	25·8	25·0	31·3	25·5	35·0	34·0	35·1	29·3	29·3	25·9	30·4	31·4	39·8	26·8	34·6	34·6	33·4	25·9	35·9	21·1	23·4	29·3	30·2	31·0	26·2	24·9

14	April	7	48·8	9·34	26·1	25·6	24·4	19·0	25·6	28·5	20·6	22·9	24·4	27·4	29·1	22·0	18·8	32·4	25·6	35·7	18·1	31·6	26·9	28·6	29·0	19·3	21·1	25·0	30·4	30·8	20·7	20·9	25·5
15	„	14	44·0	6·67	24·7	23·8	23·0	22·6	23·3	20·9	16·9	22·2	23·9	18·5	25·4	20·1	25·3	30·1	21·3	30·5	23·8	25·9	33·2	28·6	27·1	26·9	21·7	28·1	26·0	34·0	25·4	19·2	23·2
16	„	21	48·0	8·89	23·0	23·2	19·2	25·4	30·3	20·2	19·4	29·6	20·9	20·5	23·3	17·7	17·1	25·5	23·7	28·9	20·5	27·2	30·8	20·1	24·0	25·5	16·3	20·9	18·5	26·6	22·0	25·1	22·6
17	„	28	45·2	7·33	22·7	21·6	19·2	23·0	19·8	27·1	19·1	20·9	24·4	16·9	19·1	26·2	24·1	27·8	17·4	30·0	23·8	32·9	25·0	22·2	29·6	26·9	20·4	20·3	24·0	24·9	20·7	21·6	22·0
18	May	5	46·2	7·89	21·7	19·8	15·5	15·9	22·1	18·8	20·6	22·2	21·1	18·5	23·8	15·9	20·6	26·0	22·7	29·1	21·6	25·0	23·6	23·8	24·0	17·9	15·3	25·1	29·1	31·1	25·4	22·3	19·7
19	„	12	46·5	8·06	22·7	21·8	21·1	19·8	20·4	22·3	17·9	20·2	22·1	24·6	20·9	17·7	24·1	30·7	22·3	25·8	20·0	21·9	23·6	25·9	29·0	22·8	15·0	19·6	26·5	32·9	19·8	22·0	24·3
20	„	19	57·5	14·17	21·3	20·2	16·9	21·8	19·8	24·4	14·7	21·5	20·5	16·1	19·9	18·9	20·6	25·9	12·6	24·8	21·1	30·2	23·6	30·2	16·6	17·9	19·9	26·0	20·5	31·4	21·1	24·8	22·0
21	„	26	58·2	14·55	21·1	20·0	17·4	17·1	11·6	16·0	17·7	16·8	21·1	25·8	19·9	21·3	12·9	25·7	18·4	29·2	26·8	21·9	21·6	21·7	19·7	26·2	18·3	18·7	24·7	21·3	25·0	30·0	16·8
22	June	2	58·1	14·50	19·4	18·5	13·1	17·5	22·1	17·4	18·9	20·2	16·7	18·1	16·5	16·5	21·8	25·1	18·4	25·2	17·3	18·4	23·1	16·9	20·9	14·5	17·8	22·9	20·3	26·9	15·5	20·9	18·5
23	„	9	58·0	14·44	19·5	18·5	17·8	15·5	15·2	19·5	14·7	20·9	18·4	18·5	17·5	23·2	18·2	25·5	20·8	22·0	18·4	17·1	28·4	22·2	17·9	20·7	17·8	17·5	25·8	18·3	22·8	24·1	16·8
24	„	16	58·1	14·50	18·7	16·9	18·8	18·7	12·2	23·0	17·9	21·5	16·5	14·9	20·2	18·9	20·6	23·5	16·4	26·0	18·9	16·2	23·1	25·9	20·9	12·4	15·5	20·1	20·1	18·9	26·3	26·5	19·7
25	„	23	56·2	13·44	18·7	17·6	14·1	14·7	14·0	16·0	14·2	15·5	20·5	12·1	16·5	18·9	16·5	25·1	14·5	23·4	17·5	18·8	23·6	22·2	24·0	18·6	15·5	22·2	21·9	21·3	20·7	18·8	16·2
26	„	30	63·2	17·33	19·3	18·9	13·6	13·5	15·1	16·7	14·2	21·5	21·6	16·1	17·3	17·7	13·5	23·1	18·4	27·1	20·8	17·1	22·6	19·1	24·0	18·6	17·1	17·7	20·5	15·4	20·2	26·5	16·8
27	July	7	64·3	17·95	19·3	20·1	10·8	18·7	16·9	17·4	14·0	16·2	19·5	15·3	17·3	13·4	17·6	23·2	15·5	19·1	16·4	20·6	17·8	21·2	19·7	13·8	17·6	22·2	19·4	17·2	16·4	22·7	16·2
28	„	14	61·4	16·33	22·2	22·9	18·3	17·9	15·1	13·9	16·9	21·5	19·5	16·1	19·1	16·5	13·5	23·3	17·9	25·8	17·8	18·0	16·8	24·9	25·9	13·1	15·3	17·5	20·0	19·8	96·9	27·2	9·8
29	„	21	56·0	13·33	21·3	23·5	12·7	17·9	14·6	15·3	16·9	13·5	19·6	19·7	20·9	16·5	17·1	22·6	15·5	24·9	21·4	14·0	18·3	24·4	17·3	13·1	13·2	19·3	23·1	15·7	20·2	29·7	14·5
30	„	28	57·4	14·11	20·1	21·2	19·7	15·1	17·5	14·6	15·4	16·2	18·6	21·0	18·8	15·9	10·6	25·0	22·3	25·5	17·0	15·8	13·9	16·9	13·6	15·9	15·8	21·3	19·4	15·1	18·5	23·7	19·1
31	August	4	60·6	15·90	20·0	19·3	13·1	18·7	17·5	9·7	15·0	16·2	20·2	18·1	19·1	11·0	11·2	28·0	18·9	23·4	19·7	21·0	19·7	27·0	22·8	15·2	19·1	22·6	20·3	15·7	21·1	33·2	11·0
32	„	11	59·4	15·22	18·4	17·3	18·8	14·7	15·1	21·6	15·0	11·4	18·2	19·3	18·1	14·0	12·9	26·2	16·9	23·8	23·6	14·9	13·9	22·8	14·8	11 0	14·0	17·5	23·1	18·6	21·1	22·7	17·4
33	„	18	62·3	16·84	20·2	19·0	18·3	20·6	13·4	20·2	15·0	17·5	18·1	21·4	23·3	21·3	19·4	27·2	18·4	26·1	23·3	21·0	22·6	25·9	21·6	12·4	17·1	21·6	22·1	16·0	26·3	23·7	16·2
34	„	25	64·0	17·78	19·1	17·9	18·3	19·4	18·1	13·9	13·0	24·2	21·5	16·5	19·9	18·3	15·3	23·0	16·9	23·8	21·6	22·8	17·3	30·2	12·9	14·5	13·2	21·7	22·4	15·4	15·9	27·6	19·7
35	Sept.	1	62·5	16·95	19·9	17·0	26·7	22·2	13·4	25·1	15·0	20·2	21·3	27·0	21·2	17·1	21·2	24·8	21·8	28·3	24·9	18·8	20·2	27·5	20·9	13·1	18·9	20·1	25·3	17·8	19·4	29·0	20·9
36	„	8	54·7	12·61	20·0	16·6	30·5	23·0	22·1	26·4	17·9	24·2	26·0	21·0	19·6	14·0	17·6	21·9	28·5	28·0	23·0	14·0	22·6	28·6	19·7	22·1	19·4	24·5	22·8	18·9	28·0	27·2	17·4
37	„	15	57·8	14·34	19·3	16·6	22·5	21·4	20·4	18·8	13·7	22·2	21·3	18·9	17·0	14·6	20·6	24·7	17·4	26·9	26·0	19·3	25·0	22·2	23·4	16·6	13·2	24·3	22·8	18·1	26·7	23·4	20·3
38	„	22	58·4	14·66	19·6	17·0	22·0	18·3	22·1	24·4	15·7	20·2	22·0	15·3	19·9	14·6	17·6	26·4	20·8	23·2	21·6	18·8	26·0	21·7	20·3	15·2	20·1	23·7	20·8	20·4	23·3	29·0	25·5
39	„	29	57·1	13·95	19·1	16·6	20·2	17·5	22·1	23·7	15·4	18·2	20·1	14·1	20·2	15·2	17·6	26·1	24·7	35·1	18·9	17·5	18·8	28·6	15·4	18·6	15·8	19·0	21·9	25·2	25·0	33·2	16·2
40	October	6	47·7	8·72	18·5	16·5	14·1	15·5	16·3	21·6	14·0	23·6	20·5	14·9	19·6	15·9	15·9	23·5	22·7	26·5	20·3	15·3	19·2	21·2	12·3	13·8	19·6	20·0	18·9	22·8	22·8	28·6	19·7
41	„	13	51·4	10·78	20·2	19·0	16·4	13 5	16·3	16·7	19·4	24·2	17·7	11·7	22·8	12·8	18·8	23·6	18·9	27·2	26·8	21·0	23·1	32·3	18·5	15·2	18·9	26·0	16·3	25·2	17·7	29·7	18·5
42	„	20	51·3	10·73	19·6	18·6	21·1	16·3	11·1	17·4	15·0	18·2	19·2	19·3	17·8	16·5	18·8	22·6	18·4	25·8	24·9	14·9	26·0	18·5	17·3	13·8	18·9	26·8	17·8	19·8	18·1	29·3	23·2
43	„	27	50·9	10·50	20·2	19·1	20·2	12·3	16·3	16·7	18·6	16·8	15·9	14·5	19·4	19·5	21·8	25·1	23·7	28·1	28 8	19·7	21·6	22·2	17·3	15·9	16·8	26·3	18·9	19·8	22·4	22·7	21·4
44	Nov.	3	49·0	9·44	20·1	19·0	15·0	15·9	16·3	16·0	17·9	15·5	16·9	19·7	21·7	16·5	20·6	23·0	24·7	25·7	30·1	22·3	22·6	30·2	22·2	19·3	17·1	24·3	18·7	18·1	18·5	26·2	24·3
45	„	10	44·1	6·73	21·5	20·5	17·8	13·9	14·0	15·3	22·6	18·2	19·9	18·1	19·1	13·4	18·8	24·7	20·8	27·8	22·2	24·5	24·1	25·4	20·9	22·8	19·4	28·1	20·1	24·6	22·4	31·4	23·8
46	„	17	39·4	4·11	23·2	22·2	23·0	24·2	22·1	20·9	21·8	16·8	20·0	15·7	24·3	22·6	25·9	26·4	26·1	33·4	27·9	22·8	30·8	27·5	27·1	22·8	19·9	26·3	22·8	16·3	20·2	23·7	22·6
47	„	24	43·9	6·61	22·7	22·0	16·9	20·2	20·4	18·1	22·8	18·8	20·4	20·5	22·2	15·2	23·5	24·1	23·2	31·7	28·2	25·0	24·1	24·9	22·2	24·2	18·1	24·8	25·3	20·4	19·4	26·9	25·5
48	Dec.	1	46·3	7·95	23·0	21·8	18·8	18·7	16·9	18·8	22·1	22·9	23·5	24·2	24·1	22·0	18·2	26·8	23·2	29·4	25·2	26·7	28·9	20·1	26·5	22·1	16·3	26·0	22·6	20·4	24·1	29·3	28·4
49	„	8	37·8	3·23	21·6	21·5	20·6	16·7	20·4	21·6	19·6	25·6	21·8	21·4	20·2	20·7	26·5	23·6	24·7	26·1	17·3	14·0	16·8	32·8	24·0	26·2	16·6	24·5	19·8	20·1	21·5	23·4	16·8
50	„	15	44·0	6·67	22·6	22·7	22·5	13·9	20·4	20·2	15·4	16·2	24·3	20·5	23·6	24·4	22·4	25·3	22·3	29·2	26·8	20·2	24·1	27·5	24·0	17·9	16·1	25·1	21·0	17·5	20·7	22 3	20·9
51	„	22	40·9	4·94	21·9	21·2	28·6	21·4	19·8	25·1	16·4	15·5	22·9	22·6	17·3	25·6	21·2	24·2	15·0	26·3	27·1	21·9	25·5	27·0	23·4	29·0	16·6	21·9	23·1	17·8	21·1	27·6	23·8
52	„	29	40·0	4·44	20·6	19·8	23·5	15·9	25·6	17·4	17·2	21·5	18·4	18·1	21·7	19·5	22·4	24·9	23·7	25·4	16·4	24·1	25·0	24·9	17·3	16 6	15·5	23·2	20·7	18·3	19·4	25·8	20·9

TABLE 4.—**Death-rate** from **All Causes,** and from the **Principal Zymotic Diseases,** and **Infant Mortality,** in the **28 Great Towns,** in the Ten Years **1873-82,** and in **1883.**

TOWNS.	ALL CAUSES.		SMALL-POX.		MEASLES.		SCARLET FEVER.		DIPHTHERIA.		WHOOPING-COUGH.		FEVER.		DIARRHŒA.		DEATHS UNDER ONE YEAR TO 1000 BIRTHS.		TOWNS.
	10 years 1873-82.	1883.	10 years 1873-82.	1883.	10 years 1873-82.	1883.	10 years 1873-82.	1883.	10 years 1873-82.	1883.	10 years 1873-82.	1883.	10 years 1873-82.	1883.	10 years 1873-82.	1883.	10 years 1873-82.	1883.	
28 TOWNS	—	21·6	—	0·05	—	0·50	—	0·57	—	0·16	—	0·46	—	0·35	—	0·77	—	156	**28** TOWNS.
LONDON	22·2	20·4	0·24	0·03	0·54	0·61	0·62	0·51	0·14	0·24	0·82	0·40	0·35	0·27	0·85	0·68	155	146	LONDON.
BRIGHTON	20·1	19·2	0·02	0·00	0·35	0·49	0·38	0·10	0·07	0·04	0·56	0·54	0·24	0·25	0·80	0·88	151	146	BRIGHTON.
PORTSMOUTH	19·9	18·6	0·05	0·01	0·45	0·08	0·56	0·13	0·33	0·17	0·42	0·43	0·71	0·76	0·91	0·65	137	138	PORTSMOUTH.
NORWICH	22·2	19·6	0·01	0·00	0·28	0·08	0·56	0·03	0·07	0·06	0·51	0·19	0·38	0·11	1·17	0·54	178	150	NORWICH.
PLYMOUTH	22·2	20·9	0·01	0·00	1·02	0·35	0·21	0·00	0·18	0·16	0·67	0·82	0·41	0·31	0·85	0·46	160	150	PLYMOUTH.
BRISTOL	22·3	17·9	0·07	0·00	0·44	0·17	0·73	0·16	0·06	0·09	0·56	0·18	0·40	0·17	0·72	0·46	150	133	BRISTOL.
WOLVERHAMPTON	23·4	21·3	0·01	0·09	0·32	0·00	0·89	0·30	0·07	0·05	0·60	0·26	0·39	0·19	1·20	0·74	162	146	WOLVERHAMPTON.
BIRMINGHAM	23·4	21·3	0·27	0·27	0·35	0·37	1·03	0·78	0·17	0·12	0·82	0·43	0·35	0·18	1·54	0·96	169	160	BIRMINGHAM.
LEICESTER	23·6	19·4	0·00	0·00	0·48	0·11	0·70	0·51	0·09	0·05	0·52	0·46	0·37	0·09	2·23	1·14	206	189	LEICESTER.
NOTTINGHAM	22·7	21·3	0·03	0·01	0·48	0·07	0·87	0·30	0·04	0·17	0·39	0·38	0·45	0·37	1·16	0·84	180	164	NOTTINGHAM.
DERBY	—	18·1	—	0·01	—	0·26	—	0·20	—	0·01	—	0·38	—	0·22	—	0·47	—	143	DERBY.
BIRKENHEAD	—	19·9	—	0·00	—	0·42	—	0·25	—	0·02	—	0·34	—	0·33	—	0·47	—	146	BIRKENHEAD.
LIVERPOOL	27·6	26·7	0·15	0·05	0·78	1·09	1·14	0·69	0·10	0·09	0·83	0·70	0·70	0·96	1·40	0·91	195	185	LIVERPOOL.
BOLTON	—	21·7	—	0·00	—	0·02	—	0·06	—	0·06	—	0·32	—	0·28	—	1·49	—	174	BOLTON.
MANCHESTER	28·8	27·6	0·09	0·00	0·64	0·75	0·95	0·70	0·08	0·09	0·84	0·73	0·47	0·25	1·39	1·04	178	177	MANCHESTER.
SALFORD	27·0	22·4	0·33	0·00	0·87	0·82	1·06	0·43	0·11	0·12	0·87	0·53	0·60	0·38	1·72	1·05	180	171	SALFORD.
OLDHAM	25·5	22·0	0·05	0·02	0·49	0·05	1·06	0·18	0·11	0·07	0·62	0·32	0·43	0·22	0·88	0·65	172	159	OLDHAM.
BLACKBURN	—	24·5	—	0·00	—	0·03	—	0·48	—	0·00	—	0·30	—	0·89	—	1·11	—	173	BLACKBURN.
PRESTON	—	25·5	—	0·00	—	0·03	—	0·65	—	0·14	—	0·31	—	0·57	—	2·57	—	210	PRESTON.
HUDDERSFIELD	—	21·3	—	0·00	—	0·39	—	0·08	—	0·02	—	0·51	—	0·20	—	0·46	—	175	HUDDERSFIELD.
HALIFAX	—	20·0	—	0·00	—	0·03	—	0·13	—	0·05	—	0·13	—	0·40	—	0·30	—	147	HALIFAX.
BRADFORD	24·1	18·3	0·06	0·00	0·43	0·11	1·04	0·17	0·07	0·03	0·59	0·35	0·41	0·26	1·08	0·55	176	146	BRADFORD.
LEEDS	24·8	23·3	0·07	0·03	0·44	0·04	1·02	2·10	0·07	0·13	0·63	0·49	0·50	0·38	1·54	0·88	180	166	LEEDS.
SHEFFIELD	24·4	22·9	0·00	0·01	0·41	0·48	1·25	1·57	0·07	0·07	0·69	0·58	0·65	0·33	1·38	0·94	167	163	SHEFFIELD.
HULL	23·7	22·8	0·04	0·04	0·39	0·07	1·16	0·44	0·06	0·12	0·50	1·41	0·61	0·36	1·71	0·76	168	171	HULL.
SUNDERLAND	23·4	24·5	0·00	0·41	0·47	0·13	1·38	0·32	0·11	0·16	0·69	0·16	0·49	0·61	1·25	0·71	161	135	SUNDERLAND.
NEWCASTLE-UPON-TYNE	25·0	25·5	0·05	0·40	0·26	1·40	1·22	0·83	0·07	0·07	0·56	0·36	0·54	0·51	1·23	0·75	169	167	NEWCASTLE-UPON-TYNE.
CARDIFF	—	20·2	—	0·01	—	0·12	—	0·48	—	0·25	—	0·68	—	0·36	—	0·63	—	153	CARDIFF.

TABLE 5.—**Population; Births** and **Deaths** in 1883 in **Fifty other large Town Districts.**

District Numbers.	Towns.	Estimated Population in the middle of the Year 1883.	Year ending 31st December 1883. Births.	Deaths.	Annual Rate per 1000 living. Births.	Deaths.	Dis. in Cols. 8-14 Tab. 1.	Deaths under 1 Year to 1000 Births registered.	Districts and Sub-districts, taken as approximately representing the several Towns.
	FIFTY TOWNS -	2,695,285	93,615	55,106	34·7	20·4	2·47	150	Aggregate of under-mentioned Districts and Sub-districts.
	II.—SOUTH EASTERN COS.								
46	Rochester and Chatham P -	62,219	2192	1213	35·2	19·5	1·58	131	Entire District of Medway.
50	Maidstone - - - - M† -	30,454	988	577	32·4	18·9	2·69	138	West and East Sub-districts.
64	Dover - - - - - M -	37,174	1178	607	31·7	16·3	1·40	98	Entire District. [Sub-districts.
68	Hastings - - - M† -	48,683	1212	791	24·9	16·2	0·80	115	All Saints and St. Mary-in-the-Castle
97	Southampton - - M† -	54,168	1875	1153	34·6	21·3	3·12	139	Entire District.
119	Reading - - - - M† -	46,175	1547	733	33·5	15·9	2·10	108	Entire District.
	III.—SOUTH MIDLAND COS.								
150	Oxford - - - - - M -	48,724	1463	840	30·0	17·2	0·94	126	Entire District, and St. Clement Sub-district of Headington.
160	Northampton - - M† -	63,507	2328	1109	36·7	17·5	2·13	132	St. Giles & All Saints Sub-districts.
179	Cambridge - - - M -	36,674	1043	698	28·4	19·0	2·21	132	Entire District.
	IV.—EASTERN COUNTIES.								
196	Colchester - - - M -	28,852	930	478	32·2	16·6	1·18	102	Entire District.
213	Ipswich - - - - M -	52,176	1754	1043	33·6	20·0	1·82	135	Entire District.
219	Yarmouth - - - M† -	49,536	1617	921	32·6	18·6	1·23	154	Entire District and Gorleston Sub-district of Mutford.
	V.—SOUTH WESTERN COS.								
272	Exeter - - - - - M† -	37,973	1096	837	28·9	22·0	2·32	188	Entire District.
279	Devonport - - - M -	48,939	1554	912	31·8	18·6	1·37	110	Entire District of Stoke Damerel.
317	Bath - - - - - M† -	53,983	1239	1120	23·0	20·7	1·61	167	Bathwick, Lyncombe, Walcot, and Lansdown Sub-districts.
	VI.—WEST MIDLAND COS.								
327	Gloucester - - - M† -	38,478	1271	662	33·0	17·2	2·52	124	St. Nicholas, St. John the Baptist, & South Hamlet Sub-districts.
335	Cheltenham - - - M† -	44,447	1143	837	25·7	18·8	1·33	139	Cheltenham Sub-district.
351	Shrewsbury - - - M -	31,245	848	618	27·1	19·8	1·28	129	St. Mary & St. Chad Sub-dists. of Atcham.
363	Stoke-upon-Trent - P -	166,717	6839	4279	41·0	25·7	3·65	197	Entire Dis. of Stoke-on-Trent & Tunstall and Burslem Sub-dis. of Wolstanton.
367	Burton-upon-Trent - M† -	43,902	1622	711	36·9	16·2	1·69	129	Burton-upon-Trent Sub-district.
372	Walsall - - - - M† -	60,465	2484	1185	41·1	19·6	3·87	150	Bloxwich & Walsall Sub-districts.
373	West Bromwich - Impt. D† -	58,373	2210	1258	37·9	21·6	3·80	177	South-west and North-east Sub-ds.
374	Dudley - - - - - M† -	46,824	1878	1215	40·1	25·9	5·89	182	Dudley Sub-district.
379	Worcester - - - M -	32,294	1011	727	31·3	22·5	1·67	170	Entire District.
392	Coventry - - - - M -	46,325	1564	814	33·8	17·6	1·23	132	Entire District.
	VII.—NORTH MIDLAND COS.								
420	Lincoln - - - - M† -	45,716	1553	857	34·0	18·7	2·19	143	Home Sub-district.
	VIII.—NORTH WESTERN COS.								
443	Stockport - - - - M† -	74,516	2471	1774	33·2	23·8	3·02	182	Heaton Norris, and Stockport 1st and 2d Sub-districts.
444	Macclesfield - - - M† -	36,300	1038	840	28·6	23·1	2·29	176	East and West Macclesfield and Sutton Sub-districts.
450	Chester - - - - M† -	49,013	1497	939	30·5	19·2	1·45	109	Castle and Cathedral Sub-districts.
456	St. Helens - - - M† -	59,865	2416	1274	40·4	21·3	2·26	142	St. Helens Sub-district of Prescot.
457	Southport - - - - M -	37,076	902	686	24·3	18·5	1·48	141	North Meols Sub-dist. of Ormskirk.
458	Wigan - - - - M† -	50,512	2164	1312	42·8	26·0	4·49	168	Wigan Sub-district.
459	Warrington - - - M† -	43,964	1833	891	41·7	20·3	2·21	166	Warrington Sub-district.
462	Bury - - - - - M† -	56,121	1814	1178	32·3	21·0	2·32	167	South and North Bury, and Elton Sub-districts.
468	Ashton-under-Lyne - M† -	37,618	1276	981	33·9	26·1	3·64	156	Ashton Town Sub-district.
470	Rochdale - - - - M† -	79,320	2199	1609	27·7	20·3	1·22	145	Castleton Further and Nearer, Spotland Nearer, Wardleworth, & Wuerdle Sub-ds.
471	Accrington - - - M† -	34,137	1115	661	32·7	19·4	2·05	167	Accrington Sub-district of Haslingden.
482	Barrow-in-Furness - M -	58,075	2132	892	36·7	15·4	2·14	132	Entire District.
	IX.—YORKSHIRE.								
510	Rotherham - - - M† -	54,195	2025	1195	37·4	22·1	4·54	162	Rotherham and Kimberworth Sub-districts.
516	York - - - - - M† -	71,008	2170	1383	30·6	19·5	1·75	147	Bootham, Micklegate, and Walmgate Sub-districts.
534	Middlesbrough - - M† -	61,046	2579	1358	42·2	22·2	3·23	138	Middlesbrough Sub-district.
	X.—NORTHERN COUNTIES.								
542	Darlington - - - M† -	41,816	1329	684	31·8	16·4	2·27	114	Darlington Sub-district.
554	South Shields - - M -	110,900	4532	2405	40·9	21·7	3·17	141	Entire District.
555	Gateshead - - - M† -	69,705	2784	1595	39·9	22·9	3·89	156	Gateshead Sub-district.
557	Tynemouth - - - M† -	47,789	1702	928	35·6	19·4	2·26	123	North Shields & Tynemouth Sub-dists.
572	Carlisle - - - - M† -	40,906	1325	811	32·4	19·8	1·83	141	St. Cuthbert & St. Mary Sub-dists.
	XI.—MONMOUTHSH. & WALES.								
585	Newport (Monmouth) M† -	34,918	1381	691	39·5	19·8	1·89	156	Newport Sub-district.
587	Ysfradyfodwg - L. G. D.†	54,630	2140	1040	39·2	19·0	3·08	171	Ystradyfodwg Sub-dist. of Pontypridd.
588	Merthyr Tydfil - - P	89,849	3071	1971	34·2	21·9	2·13	159	Lower and Upper Merthyr Tydfil, and Aberdare Sub-districts.
592	Swansea - - - - M -	87,983	3281	1813	37·3	20·6	2·89	153	Llangafelach, Swansea, and Llansamlet Sub-districts.

NOTE.—The letter M or P affixed to the name of each Town denotes whether the limits, which the District or Sub-districts named in the last column approximately represent, are Municipal or Parliamentary. Impt. D. signifies an Improvement District, and L. G. D. a Local Government District.

† The rates of mortality for these towns have been corrected by the exclusion of a proportional number of deaths occurring in County Hospitals and Lunatic Asylums, situate within the District or Sub-districts here taken as representing the towns, or by the exclusion or addition of a proportion of the deaths in Union Workhouses in cases where only a portion of the Union is embraced by the area taken or where the Workhouse is situated outside that area.

TABLE 6.—**Births** and **Deaths** in 52 Weeks of 1883 in **Edinburgh, Glasgow, Dublin,** and in **30 Foreign Cities.**

CITIES.	POPULATION (enumerated or estimated).	BIRTHS. (Excluding Stillborn.)	DEATHS. (Excluding Stillborn.)	ANNUAL RATE per 1000 Persons living.		DEATHS FROM EPIDEMIC DISEASES.						
				Births.	Deaths.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus & Typhoid Fevers.	Diarrhœal Diseases.
EDINBURGH	235,946	6820	4514	29·0	19·2	1	134	92	116	115	62	117
GLASGOW	515,590	19751	14483	38·4	28·2	6	653	443	322	859	245	473
DUBLIN	349,685	9955	10161	28·6	29·2	–	27	179	14	333	310	237
CALCUTTA	443,219	–	12130	–	28·1	75	9	–	12	48	11	624
BOMBAY	773,196	–	23526	–	30·5	1459	318	?	?	?	25	1272
MADRAS	397,552	–	15623	–	39·4	1827	137	?	?	?	?	956
PARIS	2,239,928	64190	57024	28·7	25·5	458	1058	91	1951*	664	2060	4804
GENEVA	69,401	1607	1578	23·2	22·8	5	77	8	12*	19	14	91
BRUSSELS (with 8 Faubourgs).	407,034	13692	10167	33·8	25·1	390	128	18	32	135	115	1367
AMSTERDAM	350,202	13211	9503	37·9	27·2	45	129	52	252	88	69	20
ROTTERDAM	162,139	6053	3994	37·5	24·7	261	17	29	21	32	9	29
THE HAGUE	127,932	5074	3009	39·8	23·6	–	41	43	14	57	12	28
COPENHAGEN	250,000	9825	5779	39·4	23·2	–	2	25	51	193	48	380
STOCKHOLM	181,732	6095	4300	33·7	23·7	–	83	153	195*	59	38	515
CHRISTIANIA	122,000	3625	2106	29·8	17·3	–	1	69	52*	27	8	225
ST. PETERSBURG	929,525	–	30158	–	32·6	424	523	736	1118	135	1119	4941
BERLIN	1,207,114	42322	34864	35·2	29·0	4	1173	867	2640	369	224	5334
HAMBURG (State)	467,258	17683	12231	38·0	26·3	–	131	278	367*	248	120	862
DRESDEN	225,000	7748	5965	34·6	26·6	–	53	166	475	34	54	383
BRESLAU	279,000	10397	8967	37·4	32 2	24	58	50	211	44	89	1031
MUNICH	236,000	8806	7638	37·4	32·5	–	321	16	275*	48	46	1232
VIENNA	749,622	27234	21074	36·9	28·6	74	235	141	200	222	154	1545
PRAGUE	263,834	–	9275	–	35·3	613	171	92	176*	81	138	228
BUDA-PESTH	395,212	14148	12281	35·9	31·2	74	26	79	132	50	163	1152
TRIESTE	144,494	–	4816	–	30·0	1	3	7	214*	21	29	230
ROME	304,402	8794	8359	29·0	27·6	4	225	19	126	35	135	?
TURIN	250,393	7663	6389	30·7	25·6	47	176	22	182	83	155	?
VENICE	140,797	3751	3739	26·7	26·6	–	97	8	36*	6	61	420
LISBON	199,598	5353	6313	26·9	31·7	88	27	48	141	13	81	?
NEW YORK	1,242,533	–	33925	–	27·4	12	718	744	1011	328	705	3394
BROOKLYN	585,220	–	13671	–	23·4	2	65	516	403	134	92	1501
PHILADELPHIA	901,380	–	19986	–	22·2	179	62	561	997	86	620	996
BALTIMORE	408,520	–	9377	–	23·0	633	129	334	590	60	130	561

* Including deaths from croup.

TABLE 7.—**Population; Births** and **Deaths** in GREATER LONDON (THE METROPOLITAN AND CITY POLICE DISTRICTS), in the 52 Weeks ending 29th December 1883.

	Estimated POPULATION, middle of 1883.	ANNUAL RATE per 1000 living.			TOTAL BIRTHS.	TOTAL DEATHS.	The DEATHS registered in the 52 Weeks include								
							Deaths of		Deaths from						Deaths in Public Institutions.
		Births.	Deaths.	Principal Zymotic Diseases.			Infants under 1 Year of Age.	Persons aged 60 Years and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Fever.	Diarrhœa.	
GREATER LONDON	4,990,952	34·0	19·7	2·58	169,281	97,801	23,803	21,751	148	2758	2342	1181	1974	1275	3161	18555
INNER LONDON	3,955,814	33·9	20·4	2·74	133,656	80,578	19,487	17,467	134	2420	1989	951	1582	1081	2644	16628
OUTER RING	1,035,138*	34·5	16·7†	1·98	35,625	17,223	4,316	4,284	14	338	353	230	392	194	517	1927

* The Population of the Outer Ring is estimated by deducting the estimated Population of Inner London from that of Greater London calculated in accordance with the rate of increase which prevailed between 1871 and 1881.

† The Death-rate in the Outer Ring, corrected for the deaths in the three Middlesex County Lunatic Asylums (see Table 9), was equal to 16·2 per 1000.

TABLE **8.**—**Area, Population, Inhabited Houses, Rateable Value** of GREATER LONDON, 1881.

	Area (including Tidal Water).		Enumerated Population, 1881.	Density of Population in 1881.		Inhabited Houses, 1881.	Rateable Value, 1881.*
	In Acres.	In Square Miles.		Persons to an Acre.	Persons to a Square Mile.		£
GREATER LONDON -	448,334	701	4,766,661	10·6	6,800	645,695	32,854,916
INNER LONDON -	78,052	122	3,816,483	48·9	31,283	486,186	27,402,509
OUTER RING - -	370,282	579	950,178	2·6	1,641	159,509	5,452,407

* The Rateable Value of London in 1881 was furnished by the Metropolitan Police Office.

TABLE **9.**—LONDON—OUTER RING. **Population; Births; Deaths** from **All Causes** and from the **Seven Zymotic Diseases;** and the **Annual Rate of Mortality** in the 52 Weeks ending 29th December 1883.

Districts and Sub-districts.	Estimated Population in the middle of the Year 1883.	Births.	Deaths.	Deaths from Seven Zymotic Diseases.	Annual Rate per 1000 living.		
					Births.	Deaths.	Seven Zymotic Diseases.
LONDON—OUTER RING -	1,035,138	35,625	17,223	2038	34·5	16·2	1·98
EPSOM (*part of*) - - - -	34,017	866	645	53	25·5	13·2	1·56
CROYDON and *part of* GODSTONE	129,031	4013	1749	142	31·2	13·6	1·10
KINGSTON (*part of*) - - -	80,006	2504	1192	106	31·4	15·0	1·33
RICHMOND - - - - -	35,246	1068	629	90	30·4	17·9	2·56
BROMLEY (*part of*) - - -	50,600	1608	678	56	31·9	13·4	1·11
BEXLEY - - - - - -	25,053	806	355	24	32·3	14·2	0·96
STAINES - - - - - -	24,420	727	371	42	29·9	15·4	1·73
UXBRIDGE - - - - - -	27,749	888	641	58	32·1	18·5	2·10
BRENTFORD - - - - -	108,870	3557	1850	197	32·8	17·2	1·82
HENDON and BUSHEY - - -	65,267	2252	1107	145	34·6	17·2	2·23
BARNET and *part of* HATFIELD -	36,728	1135	666	43	31·0	12·8	1·31
EDMONTON - - - - -	154,080	5853	2672	340	38·1	17·5	2·21
WEST HAM and *part of* CHIGWELL	242,734	9531	4355	702	39·4	18·0	2·90
ROMFORD (*part of*) - - -	21,337	817	313	35	38·4	14·7	1·65

Note.—The estimates of the population in the middle of 1883 are based upon the numbers enumerated in April 1881. In calculating the rates of mortality for the above Table, a proportion of the deaths recorded in the three Middlesex County Lunatic Asylums, situated in the Districts of Epsom, Uxbridge, and Barnet, has been excluded as belonging to the Middlesex portion of Registration or Inner London, and the remainder distributed among the Middlesex Districts in the Outer Ring.

TABLE **10.**—LONDON, 1881. Of the **3,816,483 enumerated Inhabitants,** the **Number of each Sex born** in LONDON, and the **Number born elsewhere.**

	Males.		Females.		Excess of Females.	
	1871.	1881.	1871.	1881.	1871.	1881.
TOTAL INHABITANTS - - -	1,523,151	1,797,486	1,731,109	2,018,997	207,958	221,511
BORN IN LONDON - - - -	975,461	1,147,063	1,080,115	1,254,892	104,654	107,829
BORN OUT OF LONDON - - -	547,690	650,423	650,994	764,105	103,304	113,682

Note.—The enumerated Population of London in 1881 included 2,401,955 of both sexes born in London and 1,414,528 born elsewhere.

TABLE **11.—Population** at different **Ages** in **London,** as enumerated at the Censuses of **1851, 1861, 1871,** and **1881,** with the Numbers of **Males** and **Females** at the various **Ages** in **1881.**

—	All Ages.	0–	5–	10–	15–	20–	25–	35–	45–	55–	65–	75–	85 & upwds
1851	2,362,236	293,562	243,648	216,369	213,694	241,401	428,123	308,949	208,363	122,946	62,608	19,845	2,728
1861	2,803,989	362,296	300,259	264,349	259,155	277,389	476,802	366,417	246,918	149,503	74,039	23,721	3,141
1871	3,254,260	422,629	349,686	309,658	307,075	321,585	551,973	404,954	290,977	174,265	90,198	27,604	3,656
1881	3,816,483	497,044	419,740	366,111	368,628	385,236	641,265	471,131	320,530	205,921	103,815	32,982	4,080
Males –	1,797,486	248,619	208,193	179,483	171,659	176,186	297,085	222,417	147,616	90,992	42,139	11,877	1,220
Females –	2,018,997	248,425	211,547	186,628	196,969	209,050	344,180	248,714	172,914	114,929	61,676	21,105	2,860

NOTE.—In England the proportion of Females to Males in the population in 1881 was as 105 to 100; in London it was as 112 to 100. These proportions exactly corresponded with those that prevailed in 1871.

TABLE **12.—Marriages, Births,** and **Deaths** in **London,** in **Fifteen Years 1869–1883.**

YEARS.		1869.	1870.	1871.	1872.	1873.	1874.	1875.	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883 (52 weeks)
MARRIAGES – –		30,017	30,382	31,843	33,155	33,425	33,248	34,072	34,007	33,593	33,742	33,477	34,144	34,578	35,612	35,297
BIRTHS –	Persons	112,332	113,902	112,617	118,440	119,015	121,950	123,266	127,444	128,092	129,765	131,542	133,310	132,904	133,309	133,656
	Males –	57,039	58,117	57,032	60,453	60,513	62,072	62,782	65,058	65,477	66,241	66,445	67,985	67,556	67,958	68,047
	Females	55,293	55,785	55,585	57,987	58,502	59,878	60,484	62,386	62,615	63,524	65,097	65,325	65,348	65,351	65,609
DEATHS –	Persons	78,082	77,634	80,430	71,355	75,459	76,813	81,964	77,671	77,449	84,188	83,805	81,832	81,346	82,913	80,578
	Males –	39,862	39,853	40,634	36,592	38,366	39,212	42,056	40,071	39,997	43,031	42,826	41,978	41,706	42,092	41,481
	Females	38,220	37,781	39,796	34,763	37,093	37,601	39,908	37,600	37,452	41,157	40,979	39,854	39,640	40,821	39,097
EXCESS OF BIRTHS OVER DEATHS –		34,250	36,268	32,187	47,085	43,556	45,137	41,302	49,773	50,643	45,577	47,737	51,478	51,558	50,396	53,078
ANNUAL RATES PER 1000.	Persons Married	18·9	18·9	19·5	19·9	19·8	19·4	19·6	19·2	18·7	18·5	18·0	18·1	18·1	18·3	17·8
	Births –	35·4	35·4	34·5	35·6	35·3	35·6	35·4	35·9	35·6	35·5	35·5	35·3	34·7	34·2	33·9
	Deaths	24·6	24·1	24·6	21·4	22·4	22·4	23·5	21·9	21·5	23·1	22·6	21·7	21·2	21·3	20·4

NOTE.—The figures in the above table, except those for 1883, relate to the natural year ending 31st December. The figures for 1883 relate to the 52 weeks ending 29th December.

TABLE **13.—Annual Rate** of **Mortality**, in the 44 Years 1840–1883, in **Five Groups** of **Metropolitan Districts.**

	LONDON.	WEST DISTRICTS.	NORTH DISTRICTS.	CENTRAL DISTRICTS.	EAST DISTRICTS.	SOUTH DISTRICTS.
Area in Square Miles	122·0	16·8	21·0	3·5	9·3	71·4
Decennial Increase of Population per Cent., 1871–81	17·3	19·3	20·5	−15·6 (decrease).	8·4	30·8
Enumerated Population, 1881	3,816,483	669,633	905,947	282,238	692,738	1,265,927
Density: Persons to an Acre 1841	25	27	28	172	66	11
1871	42	52	56	150	107	21
1881	49	62	67	127	116	28
YEARS.	MEAN RATE OF MORTALITY PER 1000 IN 44 YEARS.					
1840–1883	23·7	22·1	22·4	25·0	25·7	23·7
	MEANS OF 10 YEARS.					
1841–50	24·8	23·0	22·7	24·7	26·2	26·2
1851–60	23·7	22·6	22·2	24·4	25·1	24·4
1861–70	24·4	22·7	23·6	26·7	26·9	23·4
1871–80	22·5	20·8	21·9	24·8	24·9	21·8
	ANNUAL RATE OF MORTALITY PER 1000.					
1840	25·0	24·1	23·9	24·5	25·7	25·9
1841	24·1	22·4	22·4	25·0	25·1	24·4
1842	23·6	22·6	22·6	23·6	24·4	23·9
1843	24·8	23·3	23·1	25·3	26·4	24·8
1844	25·1	23·9	23·3	24·4	25·9	25·6
1845	23·3	22·5	21·0	24·0	24·6	23·8
1846	23·4	21·6	21·9	22·9	24·1	24·6
1847	26·8	24·5	25·4	27·9	29·4	27·7
1848	25·7	23·6	23·4	25·3	28·7	27·2
1849	30·1	26·1	23·7	27·9	31·8	37·6
1850	21·0	19·6	19·8	21·1	21·7	21·9
1851	23·4	22·0	22·2	24·1	24·3	24·0
1852	22·5	21·5	21·2	23·9	23·3	23·0
1853	24·4	22·3	22·4	25·1	26·5	25·3
1854	29·4	28·5	24·4	27·4	30·0	34·8
1855	24·3	23·0	23·3	25·1	25·5	24·6
1856	22·0	21·5	21·1	23·0	23·3	21·8
1857	22·4	21·2	21·5	23·8	24·6	21·5
1858	23·9	22·4	22·9	24·5	25·8	24·0
1859	22·7	21·4	21·7	24·1	24·0	22·6
1860	22·4	22·2	21·2	23·3	24·1	22·1
1861	23·2	22·1	22·3	25·4	24·0	22·8
1862	23·6	22·0	22·0	26·3	26·0	22·7
1863	24·5	23·0	23·8	27·1	26·5	23·3
1864	26·4	24·6	25·4	30·0	29·0	25·4
1865	24·5	22·7	24·5	27·5	26·4	23·2
1866	26·5	22·6	25·3	27·5	34·0	24·1
1867	23·0	21·8	23·1	25·1	24·2	22·0
1868	23·5	22·3	22·9	25·6	25·6	22·9
1869	24·6	22·2	23·5	26·8	28·0	23·9
1870	24·1	23·8	23·6	26·1	25·1	23·5
1871	24·6	22·5	25·6	25·0	26·1	24·0
1872	21·4	19·6	21·1	23·6	23·6	20·6
1873	22·4	20·5	21·1	25·1	25·2	21·7
1874	22·4	20·9	21·7	25·6	25·5	21·0
1875	23·5	22·2	22·1	26·2	25·7	23·3
1876	21·9	20·9	21·1	24·1	23·9	21·2
1877	21·5	19·2	21·5	24·2	24·5	20·5
1878	23·1	21·6	22·0	25·1	25·0	23·0
1879	22·6	20·9	21·5	26·0	25·5	21·8
1880	21·7	19·8	20·8	23·4	24·3	21·3
1881	21·2	19·6	20·6	23·2	24·2	20·5
1882	21·3	19·8	19·6	23·8	25·2	20·6
1883	20·4	19·5	19·1	23·2	24·1	19·4
Average Number living to One Annual Death in 44 years	43	45	45	40	39	42

NOTE.—The populations upon which these rates of mortality have been calculated are deduced from the numbers enumerated at the five Censuses of 1841, 1851, 1861, 1871, and 1881. The deaths used for the 43 years 1840-82 are for the complete years, while those for 1883 are the numbers registered in the 52 weeks ending 29th December 1883.

Hampstead and Lewisham did not form part of Registration London prior to 1847. Wandsworth was not included in Registration London until the commencement of 1840, but the facts for that district have been included in calculating the rates in the above Table for the years 1840–43.

Certain alterations affecting the West and Central groups of districts were made in the year 1868, but no corrections have been made in the results given in this Table for any year prior to 1861.

TABLE **14.**—LONDON. **Population, Zymotic** and

PERIODS AND YEARS.	Estimated Population in the middle of each Period or Year.	DEATHS FROM PRINCIPAL ZYMOTIC DISEASES.									
		Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric Fever.	Simple and Ill-defined Fever.	Diarrhœa and Dysentery.	Simple Cholera.
Cols. - 1	2	3	4	5	6	7	8	9	10	11	12
Periods.											
1838–40 (3 Years.)	1,803,004	5,686	3,756	5,977		4,313		7,159		1,475	111
1841–50	2,103,487	8,416	13,011	18,314		18,079		20,890		16,926	15,588
1851–60	2,570,489	7,150	13,766	26,317		22,497		22,597		26,362	12,886
1861–70	3,018,193	8,347	17,338	34,391	5,323	26,550		27,149		31,578	7,403
1871–80	3,513,843	15,539	17,947	21,247	4,319	28,728	1,887	8,536	2,579	33,168	1,328
1838	1,766,169	3817	588	1524		2083		4078		498	15
1839	1,802,751	634	2036	2499		1161		1819		455	36
1840	1,840,091	1235	1132	1954		1069		1262		522	60
1841	1,878,205	1053	973	663		2278		1151		543	28
1842	1,917,108	360	1293	1224		1603		1184		855	118
1843	1,954,041	438	1442	1867		1908		2094		1005	85
1844	2,033,816	1804	1182	3029		1292		1721		831	65
1845	2,073,298	909	2318	1085		1816		1324		940	43
1846	2,113,535	257	747	928		2035		1838		2308	228
1847	2,202,673	955	1778	1433		1600		3297		2283	117
1848	2,244,837	1620	1144	4767		1630		3685		2247	652
1849	2,287,302	521	1154	2149		2349		2564		3837	14,125
1850	2,330,054	499	980	1169		1568		2032		2077	127
1851	2,373,081	1062	1297	1285		2185		2374		2755	213
1852	2,416,367	1159	595	2571		1569		2183		2513	162
1853	2,459,899	211	978	2016		2667		2617		2649	883
1854	2,503,662	694	1409	3477		2502		2816		3325	10,738
1855	2,547,639	1039	878	2611		2438		2460		2190	149
1856	2,591,815	531	1479	1819		2092		2717		2414	152
1857	2,636,174	156	1341	1599		2527		2195		3298	214
1858	2,680,700	242	2369	4184		2708		1919		2220	131
1859	2,725,374	1158	1330	3481	773	1742		1840		3513	193
1860	2,770,181	898	2090	2017	484	2067		1476		1485	51
1861	2,815,101	217	1062	2381	674	3548		1848		2740	168
1862	2,860,117	366	2334	3492	730	2168		3673		1839	106
1863	2,905,210	1996	1634	4955	799	2175		2871		2492	159
1864	2,950,361	547	2788	3244	611	2423		3782		3013	156
1865	2,995,551	640	1290	2179	431	2935		3217		3721	196
1866	3,040,761	1391	2220	1892	462	2960		2688		3294	5596
1867	3,085,971	1345	1143	1451	447	2278		2184		3060	240
1868	3,131,160	597	1962	2916	495	2338		2468		4110	324
1869	3,176,308	275	1456	5841	340	3769	716	1069	615	3495	219
1870	3,221,394	973	1449	6040	334	1956	472	976	570	3814	239
1871	3,267,251	7912	1427	1902	344	2291	384	871	436	3968	221
1872	3,319,736	1786	1680	918	267	3259	174	807	322	3588	181
1873	3,373,035	113	2149	645	320	2620	277	908	325	3950	162
1874	3,427,250	57	1680	2648	419	1867	312	879	337	3201	123
1875	3,482,306	46	1408	3677	581	3204	128	817	272	3289	108
1876	3,538,246	736	1720	2308	387	2737	159	769	202	3585	135
1877	3,595,085	2551	2387	1580	316	1817	157	901	194	2421	88
1878	3,652,837	1417	1500	1808	566	4483	151	1033	197	3534	124
1879	3,711,517	450	2475	2661	575	2934	71	849	160	1894	53
1880	3,771,139	471	1521	3100	544	3516	74	702	134	3738	133
1881	3,831,719	2367	2536	2114	657	1973	92	971	134	3055	95
1882	3,893,272	430	2338	2006	857	4682	53	975	95	2144	79
1883	3,955,814	134	2420	1989	951	1582	56	935	90	2644	83

NOTE.—Wandsworth was not included in Registration London until 1844, and Lewisham and throughout, but the population in each year refers to the same

For the years 1838–50 the numbers of deaths from the various diseases are derived from summaries of to the natural years. All the

In calculating the proportions of births and deaths to population, a correction

Infant Mortality in 46 Years 1838–83.

Annual Mortality to 1,000 Persons living of Deaths from principal Zymotic Diseases.										Annual Mortality of Infants under One Year of Age to 1000 Births.	Periods and Years.
Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric Fever.	Simple and Ill-defined Fever.	Diarrhœa and Dysentery.	Simple Cholera.		
13	14	15	16	17	18	19	20	21	22	23	24
											Periods.
1·05	0·69	11·1		0·80	1·32			0·27	0·02	—	1838–40 (3 years.)
0·40	0·62	0·86		0·87	0·98			0·80	0·68	157	1841–50
0·28	0·53	1·01		0·88	0·89			1·03	0·52	155	1851–60
0·28	0·58	1·13	0·13	0·88	0·91			1·05	0·24	162	1861–70
0·46	0·51	0·60	0·12	0·82	0·05	0·24	0·07	0·94	0·04	158	1871–80
2·16	0·33	0·86		1·18	2·31			0·28	0·01	—	1838
0·35	1·13	1·39		0·64	1·01			0·25	0·02	—	1839
0·67	0·62	1·06		0·58	0·69			0·28	0·03	—	1840
0·56	0·52	0·35		1·21	0·61			0·29	0·01	160	1841
0·19	0·67	0·64		0·84	0·62			0·45	0·06	157	1842
0·22	0·74	0·96		0·98	1·07			0·51	0·04	163	1843
0·89	0·58	1·40		0·64	0·84			0·41	0·03	152	1844
0·44	1·12	0·52		0·88	0·64			0·45	0·02	149	1845
0·12	0·35	0·44		0·96	0·87			1·09	0·11	157	1846
0·43	0·81	0·65		0·73	1·50			1·04	0·05	166	1847
0·72	0·51	2·12		0·73	1·64			1·00	0·29	158	1848
0·23	0·50	0·94		1·03	1·12			1·68	6·18	169	1849
0·21	0·42	0·50		0·67	0·87			0·89	0·05	140	1850
0·45	0·53	0·54		0·92	1·00			1·16	0·09	154	1851
0·48	0·25	1·06		0·65	6·90			1·04	0·07	151	1852
0·09	0·40	0·82		1·08	1·06			1·08	0·36	158	1853
0·28	0·56	1·39		1·00	1·12			1·33	4·29	164	1854
0·41	0·34	1·02		0·96	0·97			0·86	0·06	152	1855
0·20	0·57	0·70		0·81	1·05			0·93	0·06	150	1856
0·06	0·51	0·61		0·96	0·83			1·25	0·08	156	1857
0·09	0·88	1·56		1·01	0·72			0·83	0·05	160	1858
0·42	0·49	1·28	0·28	0·64	0·68			1·29	0·07	150	1859
0·32	0·75	0·73	0·17	0·75	0·53			0·54	0·02	153	1860
0·08	0·38	0·85	0·24	1·26	0·66			0·97	0·06	155	1861
0·13	0·82	1·22	0·26	0·76	1·28			0·64	0·04	143	1862
0·69	0·56	1·70	0·28	0·74	0·99			0·86	0·05	151	1863
0·19	0·95	1·10	0·21	0·82	1·23			1·02	0·05	169	1864
0·21	0·43	0·73	0·14	0·98	1·07			1·24	0·07	171	1865
0·46	0·73	0·62	0·15	0·97	0·88			1·08	1·84	172	1866
0·44	0·37	0·47	0·14	0·74	0·71			0·99	0·08	159	1867
0·19	0·63	0·93	0·16	0·75	0·79			1·31	0·10	166	1868
0·09	0·46	1·84	0·11	1·19	0·23	0·34	0·19	1·10	0·07	170	1869
0·30	0·45	1·87	0·10	0·61	0·15	0·30	0·18	1·18	0·07	164	1870
2·42	0·44	0·58	0·11	0·70	0·12	0·27	0·13	1·21	0·07	171	1871
0·54	0·51	0·28	0·08	0·98	0·05	0·24	0·10	1·08	0·05	158	1872
0·03	0·64	0·19	0·09	0·78	0·08	0·27	0·10	1·17	0·05	160	1873
0·02	0·49	0·77	0·12	0·54	0·09	0·26	0·10	0·93	0·04	156	1874
0·01	0·40	1·06	0·17	0·92	0·04	0·23	0·08	0·94	0·03	162	1875
0·21	0·49	0·65	0·11	0·77	0·04	0·22	0·06	1·01	0·04	157	1876
0·71	0·66	0·44	0·09	0·51	0·04	0·25	0·05	0·67	0·02	146	1877
0·39	0·41	0·49	0·15	1·23	0·04	0·28	0·05	0·97	0·03	164	1878
0·12	0·67	0·72	0·15	0·79	0·02	0·23	0·04	0·51	0·01	148	1879
0·12	0·40	0·82	0·14	0·93	0·02	0·19	0·04	0·99	0·04	158	1880
0·62	0·66	0·55	0·17	0·51	0·02	0·25	0·03	0·80	0·02	148	1881
0·11	0·60	0·52	0·22	1·20	0·01	0·25	0·02	0·55	0·02	151	1882
0·03	0·61	0·51	0·24	0·40	0·01	0·24	0·02	0·68	0·02	146	1883

Hampstead not until 1847; thus the figures in the above Table do not relate to the same area
area as the various columns relating to Births and Deaths.

52 or 53 weeks; the numbers for the 32 years 1851–82 are derived from the Annual Reports, and relate
figures for 1883 are for 52 weeks.

was made for leap years and also for years represented by 52 or 53 weeks.

TABLE **15.—Deaths** REGISTERED in **London** at several groups of **Ages** and from different **Causes** during the 52 Weeks ending Saturday 29th December 1883.

CAUSES OF DEATH.	Annual Average, 1873-82.	TOTAL AT ALL AGES.	0–5. Under 1 Year.	0–5. 1–5.	5–20.	20 and under 40	40 and under 60.	60 and under 80.	80 and upwds.
ALL CAUSES	* 87303·7	80,578	19,487	14,065	5410	10,669	13,480	14,253	3214
Small-pox † Vaccinated	942·7	42	–	1	7	27	7	–	–
Small-pox † Unvaccinated		55	12	12	18	10	2	1	–
Small-pox † No Statement		37	6	3	11	12	5	–	–
Measles	2143·3	2420	497	1757	157	8	–	1	–
Scarlet Fever	2447·0	1989	91	1225	621	47	5	–	–
Typhus	161·5	56	–	2	23	18	12	1	–
Relapsing Fever	·1	–	–	–	–	–	–	–	–
Influenza	14·6	11	3	–	1	–	3	2	2
Whooping-cough	3237·1	1582	574	959	48	–	1	–	–
Diphtheria	554·2	951	51	594	266	27	10	3	–
Simple and Undefined Fever	234·5	90	3	18	22	23	8	14	2
Enteric Fever	958·9	935	6	66	318	393	119	30	3
Simple Cholera	119·2	83	34	19	5	10	8	7	–
Diarrhœa, Dysentery	3397·9	2644	1883	416	30	38	61	164	52
Remittent Fever	2·3	17	1	11	2	1	2	–	–
Hydrophobia	6·2	8	–	2	3	1	2	–	–
Glanders	2·8	1	–	–	–	1	–	–	–
Cowpox and Vaccination	1·5	12	12	–	–	–	–	–	–
Venereal Affections	567·9	583	394	46	4	57	49	29	4
Erysipelas	399·6	324	92	20	7	38	69	86	12
Pyæmia, Septicæmia	18·1	147	19	11	19	43	44	11	–
Puerperal Fever	305·8	307	–	–	14	274	19	–	–
Other Zymotic Diseases	9·2	98	31	36	9	9	5	7	1
Thrush	182·9	127	121	4	–	–	–	2	–
Worms & other Parasitical Diseases	21·9	17	1	3	–	4	6	3	–
Starvation, Want of Breast-milk	13·8	99	92	1	1	–	3	1	1
Alcoholism, Delirium Tremens	205·8	283	–	–	–	99	152	31	1
Rheumatic Fever, Rheumatism of Heart	542·8	384	1	5	122	141	79	32	4
Rheumatism	–	145	–	2	2	17	33	83	8
Gout	168·3	136	–	–	–	5	44	73	14
Rickets	12·3	166	39	121	5	1	–	–	–
Cancer	2263·9	2547	2	14	18	253	1216	986	58
Tabes Mesenterica	1548·9	1421	835	462	91	21	9	3	–
Tubercular Meningitis	1624·7	1420	467	700	216	27	9	1	–
Phthisis	9266·1	8917	143	253	849	4373	2836	457	6
Scrofula, Tuberculosis	718·7	788	235	256	132	100	48	17	–
Other Constitutional Diseases	41·2	508	52	25	36	93	159	130	13
Premature Birth	1495·8	1561	1359	2	–	–	–	–	–
Atelectasis	10·9	136	136	–	–	–	–	–	–
Congenital Malformations	348·2	328	305	14	8	1	–	–	–
Old Age	2757·3	2730	–	–	–	–	20	1363	1347
Apoplexy	2428·5	1993	36	24	25	173	628	964	143
Epilepsy	404·3	333	7	12	43	91	85	86	9
Convulsions	2718·0	2549	2024	486	27	5	4	1	2
Other Diseases of Brain, &c.	4387·9	4481	732	851	299	332	735	1301	231
Diseases of Organs of Special Sense	9·3	135	32	23	35	21	14	8	2
Diseases of Circulatory System	4976·7	5394	62	43	353	883	1779	2004	270

* These averages have been raised about 8¾ per cent., to allow for increase of population between the middle of the period 1873-82, and the middle of 1883, and also for comparison with the deaths recorded in the 52 weeks of 1883. In certain cases the average cannot be ascertained, and — is inserted. For the population at each group of ages, estimated to the middle of 1883, *see* Table 25.

† Those cases of small-pox only are returned as "Vaccinated" or as "Unvaccinated" which are so certified by registered medical men. When the medical attendant does not certify that the deceased has, or has not, been vaccinated, or when the cause of death is not certified by a registered practitioner, the case is returned under the heading "No Statement."

TABLE **15** (*continued*).—**Deaths** REGISTERED in **London** at several groups of **Ages** from different **Causes** during the 52 Weeks ending Saturday 29th December 1883.

CAUSES OF DEATH.	Annual Average 1873-82.	TOTAL AT ALL AGES.	0–5. Under 1 Year.	0–5. 1–5.	5–20.	20 and under 40.	40 and under 60.	60 and under 80.	80 and upwds.
Croup	* 721·4	827	89	625	113	–	–	–	–
Bronchitis	11559·3	10011	2607	1956	138	293	1356	3062	599
Pneumonia	4763·5	4431	1014	1326	224	537	701	565	64
Pleurisy	271·0	292	8	36	34	88	69	55	2
Other Diseases of Respiratory System	2102·9	1511	291	294	87	126	315	340	58
Dentition	765·8	768	428	340	–	–	–	–	–
Sore Throat, Quinsy	12·5	113	16	46	26	9	8	6	2
Enteritis	403·2	364	134	50	39	33	45	59	4
Peritonitis	346·4	336	33	12	67	114	63	44	3
Disease of Liver	1652·2	1496	129	10	22	208	621	475	31
Others, Digestive System	1429·0	1500	339	97	85	184	336	395	64
Disease of Lymphatics, &c.	8·5	100	7	15	14	18	30	16	–
Diseases of Urinary System	1685·4	1985	17	88	112	382	668	632	86
Diseases of Generative System	308·0	293	10	7	7	94	131	43	1
Accidents of Childbirth	307·9	180	–	–	9	150	21	–	–
Diseases of Locomotive System	47·0	393	15	41	168	70	54	43	2
Diseases of Integumentary System	26·6	253	79	17	4	17	45	77	14
(ACCIDENT.) †									
Fractures and Contusions	1066·0	1076	38	120	162	259	274	181	42
Wounds { Gunshot	3·7	2	–	–	1	1	–	–	–
Wounds { Cut, Stab	29·4	14	–	2	4	2	4	2	–
Burns and Scalds	288·7	280	26	134	48	20	27	24	1
Poison	68·9	79	6	9	6	27	20	9	2
Drowning	425·4	360	12	14	113	127	76	18	–
Suffocation	633·3	626	536	30	9	16	23	11	1
Otherwise	186·1	115	51	3	13	11	22	13	2
Battle ‡	·2	–	–	–	–	–	–	–	–
(HOMICIDE.)†									
Murder and Manslaughter	96·7	75	47	4	1	15	6	2	–
(SUICIDE.)†									
Wounds { Gunshot	24·6	39	–	–	2	18	14	5	–
Wounds { Cut, Stab	73·6	61	–	–	–	17	30	14	–
Poison	60·7	81	–	–	7	35	30	8	1
Drowning	65·5	61	–	–	3	22	27	9	–
Hanging	84·7	95	–	–	–	26	54	14	1
Otherwise	30·4	31	1	–	–	16	7	7	–
(EXECUTION.)									
Hanging	2·8	2	–	–	–	1	1	–	–
All Other Causes	375·7	3438	2664	290	45	56	112	222	49

* *See* note on preceding page.

† The evidence at inquests is often insufficient to enable the coroner to certify whether a violent death resulted from accident, murder, manslaughter, or suicide. All such cases are classed under "accident or negligence."

‡ *See* note to Table 16.

TABLE **16.—Causes** of **Deaths** REGISTERED in **London** in each of the 10 Years 1873–1882; **Averages** 1873–1882; and **Deaths** REGISTERED in 1883 and in each Quarter of 1883.

YEARS	1873	1874	1875	1876	1877	1878	1879	1880	1881	1882	Annual Average 1873-82.	1883	1883. QUARTER ENDING Mar. 31	June 30	Sept. 29	Dec. 29
CAUSES OF DEATH.	371 Days.	364 Days.	364 Days.	364 Days.	364 Days.	364 Days.	371 Days.	364 Days.	364 Days.	364 Days.	Reduced to 364 Days.	364 Days.	91 Days	91 Days	91 Days	91 Days
ALL CAUSES	76634	76606	81513	77411	77002	83095	85540	81128	81071	82905	* 87303·7	80578	21814	20187	18565	20012
Small-pox { Vaccinated										108		42	9	8	10	15
Small-pox { Unvaccinated	115	56	75	735	2544	1416	458	475	2371	184	942·7	55	19	12	10	14
Small-pox { No statement										139		37	24	7	3	3
Measles	2195	1655	1427	1741	2347	1510	2488	1501	2533	2329	2143·3	2420	483	795	655	487
Scarlet Fever	652	2662	3651	2297	1576	1792	2706	3073	2108	2004	2447·0	1989	417	325	546	701
Typhus	284	312	128	163	159	150	70	72	96	52	161·5	56	19	14	11	12
Relapsing Fever	–	–	–	–	–	–	–	–	–	1	·1	–	–	–	–	–
Influenza	16	16	21	23	15	9	9	11	8	6	14·6	11	5	5	–	1
Whooping-cough	2689	1861	3232	2739	1780	4446	3000	3438	1961	4647	3237·1	1582	458	403	341	380
Diphtheria	306	365	546	359	317	558	592	541	654	863	754·2	951	207	220	236	288
Simple & Undefined Fever	344	359	312	232	204	201	168	125	123	90	234·5	90	26	27	11	26
Enteric Fever	921	883	842	781	886	1010	861	689	977	975	958·9	935	225	136	220	354
Simple Cholera	164	122	107	131	88	123	54	134	95	79	119·2	83	1	9	62	11
Diarrhœa, Dysentery	3962	3149	3276	3589	2572	3721	1966	3823	3053	2162	3397·9	2644	192	294	1879	279
Remittent Fever	–	–	–	–	–	–	–	–	–	21	2·3	17	3	8	1	5
Hydrophobia	1	9	6	6	16	5	2	3	5	4	6·2	8	1	–	2	5
Glanders	3	2	–	3	3	4	5	3	2	1	2·8	1	–	–	1	–
Cowpox and Vaccination	–	–	–	–	–	–	–	–	–	14	1·5	12	4	5	1	2
Venereal Affections	499	493	543	525	500	524	538	537	551	517	567·9	583	154	158	150	121
Erysipelas	424	558	433	379	322	278	244	340	353	347	399·6	324	83	69	69	103
Pyæmia Septicæmia	–	–	–	–	–	–	–	–	–	167	18·1	147	41	37	35	36
Puerperal Fever	306	456	304	255	217	195	194	268	332	287	305·8	307	91	88	59	69
Other Zymotic Diseases	–	–	–	–	–	–	–	–	–	85	9·2	98	20	27	23	28
Thrush	168	171	185	179	167	172	166	185	178	112	182·9	127	20	30	41	36
Worms and other Parasitical Diseases	17	17	14	12	18	26	17	32	23	26	21·9	17	9	5	1	2
Starvation, Want of Breast Milk	–	–	–	–	–	–	–	–	–	127	13·8	99	26	22	25	26
Alcoholism, Delirium Tremens	153	151	206	195	184	202	215	164	198	226	205·8	283	69	71	80	63
Rheumatic Fever, Rheumatism of Heart	453	526	614	509	451	432	445	467	601	338	542·8	384	95	90	92	107
Rheumatism										160		145	48	31	30	36
Gout	121	143	140	144	179	135	187	189	162	149	168·3	136	39	36	27	34
Rickets	–	–	–	–	–	–	–	–	–	113	12·3	166	42	43	39	42
Cancer	1793	1929	1951	1973	1910	2086	2165	2229	2358	2442	2263·9	2547	660	654	618	615
Tabes Mesenterica	1214	1195	1573	1456	1450	1515	1468	1650	1384	1370	1548·9	1421	308	328	489	296
Tubercular Meningitis	1378	1454	1451	1418	1559	1625	1618	1629	1569	1252	1624·7	1420	369	430	335	286
Phthisis	8544	8255	8797	8731	8519	8885	8800	8029	8312	8409	9266·1	8917	2391	2360	1993	2173
Scrofula, Tuberculosis	576	583	654	590	654	687	690	734	698	749	718·7	788	200	188	207	193
Other Constitutional Dis.	–	–	–	–	–	–	–	–	–	379	41·2	508	131	133	117	127
Premature Birth	1158	1201	1255	1325	1281	1350	1398	1565	1489	1745	1495·8	1861	480	428	480	473
Atelectasis	–	–	–	–	–	–	–	–	–	100	10·9	136	35	38	28	35
Congenital Malformations	282	260	314	310	349	333	346	348	338	325	348·2	328	102	72	76	78
Old Age	2661	2479	2462	2399	2379	2514	2866	2495	2563	2554	2757·3	2730	824	691	538	677
Apoplexy	2170	2262	2195	2165	2175	2341	2363	2250	2345	2085	2428·5	1993	565	486	422	520
Epilepsy	367	372	418	387	371	358	396	334	373	345	404·3	333	88	82	83	80
Convulsions	2322	2533	2595	2609	2544	2558	2582	2445	2264	2563	2718·0	2549	709	638	630	572
Other Diseases of Brain, &c.	3554	3664	3987	3790	3947	4197	4341	4135	4091	4678	4387·9	4481	1229	1214	989	1049
Diseases of Organs of Special Sense	–	–	–	–	–	–	–	–	–	86	9·3	135	32	31	35	37
Diseases of Circulatory System	4227	4297	4418	4217	4451	4705	4871	4548	4865	5204	4976·7	5394	1502	1383	1120	1389

* These averages have been raised about 8½ per cent. to allow for increase of population between the middle of the period 1873-82 and the middle of 1883, and also for comparison with the deaths recorded in the 52 weeks of 1883. In certain cases the average cannot be ascertained, and — is inserted.

TABLE **16** (*cont.*)—**Causes** of **Deaths** REGISTERED in **London** in each of the 10 Years 1873–1882; **Averages** 1873–1882; and **Deaths** REGISTERED in 1883 and in each Quarter of 1883.

YEARS	1873	1874	1875	1876	1877	1878	1879	1880	1881	1882	Annual Average 1873-82.	1883	1883. QUARTER ENDING Mar. 31	June 30	Sept. 29	Dec. 29
CAUSES OF DEATH.	371 Days.	364 Days.	364 Days.	364 Days.	364 Days.	364 Days.	371 Days.	364 Days.	364 Days.	364 Days.	Reduced to 364 Days. *	364 Days.	91 Days.	91 Days.	91 Days.	91 Days.
Croup	719	751	722	603	529	600	577	570	695	873	721·4	827	232	181	172	242
Bronchitis	10259	9583	10601	9231	9607	10879	11212	11138	9874	11003	11559·3	10011	3496	2535	1060	2920
Pneumonia	4291	4298	4552	4210	4068	4398	5130	4173	4167	4554	4763·5	4431	1298	1336	675	1122
Pleurisy	232	267	271	237	222	247	268	241	240	269	271·0	292	89	75	58	70
Other Diseases of Respiratory System	2130	1964	2068	1937	1880	1906	2141	1841	1792	1695	2102·9	1511	528	395	223	365
Teething	660	713	774	681	695	775	732	660	653	705	765·8	768	232	224	155	157
Sore Throat, Quinsy	–	–	–	–	–	–	–	–	–	115	12·5	113	23	36	35	19
Enteritis	351	340	379	341	349	370	337	429	442	373	403·2	364	80	77	117	90
Peritonitis	356	365	293	298	307	275	281	290	371	347	346·4	336	85	83	81	86
Diseases of Liver	1426	1468	1564	1607	1555	1569	1461	1513	1514	1529	1652·2	1496	374	400	357	365
Others, Digestive System	1272	1277	1235	1279	1317	1290	1339	1342	1377	1424	1429·0	1500	381	343	385	391
Diseases of Lymphatic System and Ductless Glands	–	–	–	–	–	–	–	–	–	78	8·5	100	27	18	27	28
Diseases of Urinary System	1342	1471	1524	1475	1509	1578	1604	1600	1677	1732	1685·4	1985	513	531	440	501
Diseases of Generative System	283	298	297	270	297	289	278	229	277	317	308·0	293	88	72	58	75
Accidents of Childbirth	326	335	324	354	289	255	245	253	228	225	307·9	180	56	47	37	40
Diseases of Locomotive System	–	–	–	–	–	–	–	–	–	433	47·0	393	110	92	84	107
Diseases of Integumentary System	–	–	–	–	–	–	–	–	–	245	26·6	253	58	71	51	73
(ACCIDENT.)†																
Fractures and Contusions	977	964	1004	1020	957	965	963	897	1030	1034	1066·0	1076	266	293	263	254
Wounds { Gunshot	4	7	2	3	5	7	8	7	8	3	5·7	2	–	1	1	–
Wounds { Cut, Stab	29	46	41	32	19	20	19	21	19	25	29·4	14	3	1	6	4
Burns and Scalds	279	274	270	240	247	267	318	238	275	249	258·7	280	98	67	42	73
Poison	45	58	46	76	67	69	67	58	77	71	68·9	79	15	22	18	24
Drowning	363	324	375	343	316	369	311	326	337	351	425·4	360	63	109	139	49
Suffocation	534	540	555	559	548	569	630	605	646	643	635·3	626	224	151	123	128
Otherwise	201	202	189	211	158	150	154	128	184	126	186·1	115	26	31	29	29
Battle	–	–	–	–	–	–	–	–	–	2‡	·2	–	–	–	–	–
(HOMICIDE.)†																
Murder and Manslaughter	124	97	70	96	78	78	88	89	87	83	91·7	75	17	26	17	15
(SUICIDE.)†																
Wounds { Gunshot	17	21	11	17	20	30	28	25	28	29	24·6	39	10	10	10	9
Wounds { Cut, Stab	72	58	77	66	55	59	77	69	83	61	73·6	61	13	15	14	19
Poison	41	28	44	57	49	64	70	74	70	62	60·7	81	17	24	20	20
Drowning	62	59	57	68	44	59	64	67	59	64	65·5	61	14	17	19	11
Hanging	76	64	81	67	81	74	100	85	83	69	84·7	95	28	21	23	23
Otherwise	19	25	28	23	24	29	33	32	39	27	30·4	31	4	10	8	9
(EXECUTION.)																
Hanging	–	3	2	7	4	1	3	4	–	2	2·8	2	–	–	–	2
ALL OTHER CAUSES	–	–	–	–	–	–	–	–	–	3458	375·7	3438	890	742	1000	806

* *See* note on preceding page.

† The evidence at inquests is often insufficient to enable the coroner to certify whether a violent death resulted from accident, murder, manslaughter, or suicide. All such cases are classed under "accident or negligence."

‡ Two soldiers, who died from gunshot wounds received in Egypt.

TABLE **17.—Deaths** REGISTERED in the **London Registration Districts**, and the **Mean Temperature**, in each of the 11 Years 1873–1883.

REGISTRATION DISTRICTS.	AREA in Acres.*	DENSITY, Persons to an Acre, 1881.	1873	1874	1875	1876	1877	1878	1879	1880	1881	1882	1883 (52 weeks.)
Mean Temperature	—	—	48°·9	49°·4	49°·4	50°·1	49°·7	49°·6	46°·2	49°·4	48°·8	49°·7	49°·4
LONDON	78,052	49	75,459	76,813	81,964	77,671	77,449	84,188	83,805	81,832	81,346	82,913	80,578
1 KENSINGTON	3441	79	4371	4677	4808	4885	4473	5060	4978	4755	4689	5020	4973
2 FULHAM	4209	27	1479	1660	1875	1964	1771	2358	2219	2231	2472	2500	2607
3 CHELSEA	861	102	1686	1802	1923	1753	1746	1920	2108	2008	1946	2057	2066
4 ST. GEO. HANOVER SQ.	2051	73	3339	3310	3759	3370	3163	3340	3315	3163	3122	3086	3063
5 WESTMINSTER	216	216	1101	1004	1079	971	873	1098	979	986	931	880	771
6 MARYLEBONE	1506	103	3668	3884	3991	3627	3511	3654	3850	3498	3326	3115	2983
7 HAMPSTEAD	2248	20	541	563	652	698	901	873	626	580	619	666	683
8 PANCRAS	2672	88	5206	5057	5434	5193	5122	5365	5486	5333	5225	5077	4965
9 ISLINGTON	3107	91	4456	4816	4833	4969	5111	5376	5456	5716	5617	5643	5536
10 HACKNEY	3935	47	2725	3009	3145	3107	3550	3696	3440	3545	3990	3683	3744
11 ST. GILES	245	185	1150	1213	1217	1111	1095	1101	1095	1135	1019	1011	999
12 STRAND	433	78	1208	1081	1097	999	973	1073	1123	961	912	935	910
13 HOLBORN	816	186	3918	3925	3963	3651	3633	3680	3739	3209	3106	3187	2922
14 LONDON CITY	781	70	1814	1906	1885	1639	1583	1561	1591	1417	1469	1450	1445
15 SHOREDITCH	648	195	3052	2989	3296	2825	2877	3133	3074	2959	3001	3247	3007
16 BETHNAL GREEN	755	168	3066	3033	3114	2832	2904	2957	2949	2910	3064	3088	3066
17 WHITECHAPEL	405	176	2424	2637	2483	2361	2511	2445	2448	2245	2361	2344	2253
18 ST. GEO.-IN-THE-EAST	244	193	1259	1292	1191	1151	1224	1152	1409	1212	1333	1197	1243
19 STEPNEY	569	103	1272	1245	1344	1264	1299	1334	1402	1325	1279	1355	1392
20 MILE END OLD TOWN	679	156	2110	2104	2137	2223	2199	2287	2484	2346	2258	2386	2256
21 POPLAR	2648	59	3259	3435	3430	3377	3474	3679	3672	3797	3524	3979	3719
22 ST. SAVIOUR SOUTHWARK	1170	167	4298	4252	4689	4071	4336	4765	4728	4599	4270	4754	4332
23 ST. OLAVE SOUTHWARK	1728	78	3495	3198	3825	3408	3275	3810	3712	3364	3346	3514	3292
24 LAMBETH	4060	62	5025	4851	5647	5197	5534	5801	5669	5750	5406	5687	5372
25 WANDSWORTH	11707	18	2545	2796	3112	3163	3004	3308	3423	3637	3660	3845	4085
26 CAMBERWELL	4450	42	2431	2487	3024	2757	2711	3357	3454	3546	3491	3777	3414
27 GREENWICH	3801	35	2311	2212	2539	2433	2333	2809	2841	2956	3458	3026	2913
28 LEWISHAM	11436	6	818	899	965	973	920	1064	985	1064	1051	1074	1045
29 WOOLWICH	7281	11	1432	1476	1507	1699	1343	2132	1550	1594	1401	1330	1522

NOTE. — This Table is compiled from the Abstracts which appear in the Registrar General's Annual Reports, excepting for the year 1883, for which the numbers are derived from the Weekly Returns embracing 52 weeks.

* These areas have been supplied to the Registrar General by the Ordnance Survey Department, and include 2718 acres of tidal water, or of the river Thames. For area of Greater London see Table 8.

TABLE **18.** LONDON.—**Births** and **Deaths**; DEATHS of INFANTS under 1 Year of Age, and of PERSONS aged 60 Years and upwards, from ALL CAUSES; DEATHS from the principal ZYMOTIC DISEASES and from VIOLENCE, INQUEST CASES, DEATHS in PUBLIC INSTITUTIONS, and UNCERTIFIED DEATHS, in GROUPS of DISTRICTS, and in each REGISTRATION DISTRICT during the 52 Weeks ending Saturday, 29th December 1883.

REGISTRATION DISTRICTS.	Enumerated Population, 1881.	Total Births in 52 Weeks.	Total Deaths in 52 Weeks.	The DEATHS registered in the 52 Weeks include															
				Deaths of		Deaths from													
				Infants under 1 Year of Age.	Persons aged 60 Years and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus Fever.	Enteric (or Typhoid) Fever.	Simple continued Fever.	Diarrhœa.	Cholera.	Violence.	Inquest Cases.	Deaths in Public Institutions.	Uncertified.
LONDON	3816483	133656	80578	19487	17467	134	2420	1989	951	1582	56	935	90	2644	83	2997	5834	16628	984
WEST DISTRICTS	669633	20105	13480	3097	3350	1	219	167	143	255	7	184	16	456	20	465	962	3305	125
NORTH DISTRICTS	905947	30316	17911	4176	4239	66	459	412	261	319	12	339	18	545	15	553	1363	3579	42
CENTRAL DISTRICTS	282238	8605	6276	1455	1142	1	247	121	93	106	6	72	12	212	6	351	668	1485	40
EAST DISTRICTS	692738	27544	16936	4307	3221	6	665	675	139	301	11	134	19	586	19	799	1516	3968	169
SOUTH DISTRICTS	1265927	47086	25975	6452	5515	60	830	614	315	601	20	256	25	845	23	829	1325	4291	608
WEST DISTRICTS.																			
1. KENSINGTON	270369	7079	4973	992	1431	–	75	62	59	90	3	48	4	125	6	146	312	1329	20
2. FULHAM	114839	5008	2607	838	504	–	50	59	17	62	3	28	4	130	5	88	213	250	25
3. CHELSEA	88128	3278	2066	542	437	–	43	22	19	44	–	9	–	102	8	51	161	488	11
4. ST. GEO. HANOVER SQ.	149748	3649	3063	555	765	1	46	19	46	49	1	47	8	74	1	156	231	1062	57
5. WESTMINSTER	46549	1091	771	170	213	–	5	5	2	10	–	2	–	25	–	24	45	176	12
NORTH DISTRICTS.																			
6. MARYLEBONE	154910	4910	2983	776	700	2	53	30	41	58	1	44	4	122	3	100	228	489	7
7. HAMPSTEAD	45452	1297	683	127	166	–	20	37	13	11	1	15	1	14	–	21	43	125	–
8. PANCRAS	236258	7719	4965	1107	1180	–	90	49	84	73	–	120	4	140	2	204	468	1357	9
9. ISLINGTON	282865	9888	5536	1300	1312	7	162	132	89	117	1	92	6	169	5	114	385	924	6
10. HACKNEY	186462	6502	3744	866	881	57	134	164	34	60	9	68	3	100	5	114	239	684	20
CENTRAL DISTRICTS.																			
11. ST. GILES	45382	1436	999	256	265	–	33	16	8	9	–	7	3	30	–	32	99	225	4
12. STRAND	33582	765	910	166	120	–	58	17	16	6	–	14	1	20	–	73	116	336	8
13. HOLBORN	151835	5445	2922	864	485	1	133	68	39	81	3	25	7	130	5	94	240	233	18
14. LONDON CITY	51439	959	1445	169	272	–	23	20	30	10	3	26	1	32	1	152	213	691	10
EAST DISTRICTS.																			
15. SHOREDITCH	126591	5102	3007	817	729	1	86	117	16	43	–	13	1	128	5	105	204	695	29
16. BETHNAL GREEN	126961	5310	3066	838	525	–	134	156	14	41	1	20	3	89	6	94	219	516	15
17. WHITECHAPEL	71363	2472	2253	420	369	1	63	18	21	16	1	24	1	78	–	208	305	1149	18
18. ST. GEO.-IN-THE-EAST	47157	1901	1243	337	231	–	46	29	7	37	2	7	–	56	1	33	72	314	17
19. STEPNEY	58543	2153	1392	404	165	–	61	79	35	40	–	15	2	53	1	93	149	218	21
20. MILE END OLD TOWN	105613	4212	2256	579	462	1	95	130	19	68	6	22	4	56	4	51	150	294	49
21. POPLAR	156510	6394	3719	912	740	3	180	146	27	56	1	33	8	126	2	215	417	782	20
SOUTH DISTRICTS.																			
22. ST. SAVIOUR SOUTHWARK	195164	7524	4332	1151	875	3	183	101	38	57	1	27	7	164	1	91	214	723	96
23. ST. OLAVE SOUTHWARK	134632	5243	3292	778	571	–	99	126	36	31	3	29	–	109	2	207	290	783	60
24. LAMBETH	253699	9209	5372	1232	1210	16	156	125	67	126	6	54	6	162	8	189	259	1171	127
25. WANDSWORTH	210434	8079	4085	1115	866	–	133	65	63	133	3	48	1	155	3	102	166	400	75
26. CAMBERWELL	186593	6923	3414	897	765	5	110	44	36	92	1	27	2	105	4	76	157	374	67
27. GREENWICH	131233	5042	2913	688	588	36	68	120	36	88	6	50	5	89	–	79	129	541	116
28. LEWISHAM	73327	2346	1045	280	292	–	20	20	17	22	–	7	1	34	–	24	32	70	20
29. WOOLWICH	80845	2720	1522	311	348	–	61	13	22	52	–	14	3	27	5	61	78	229	47

TABLE **19.** LONDON.—TOTAL **Births** and **Deaths**; DEATHS of INFANTS under 1 Year of Age, and of PERSONS aged 60 Years and upwards from ALL CAUSES; DEATHS from the principal ZYMOTIC DISEASES, and from VIOLENCE; INQUEST CASES, DEATHS in PUBLIC INSTITUTIONS, and UNCERTIFIED DEATHS; registered in each REGISTRATION SUB-DISTRICT during the 52 Weeks ending Saturday, 29th December 1883.

REGISTRATION SUB-DISTRICTS.	Enumerated Population, 1881.	Total BIRTHS in 52 Weeks.	Total DEATHS in 52 Weeks.	The DEATHS registered in the 52 Weeks include															
				Deaths of		Deaths from											Inquest Cases.	Deaths in Public Institutions.	Uncertified.
				Infants under 1 Year of Age.	Persons aged 60 Years and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus Fever.	Enteric (or Typhoid) Fever.	Simple continued Fever.	Diarrhœa.	Cholera.	Violence.			
WEST DISTRICTS.																			
St. Mary Paddington *WHH*	60888	2251	1291	331	364	-	29	35	22	39	-	9	1	36	2	26	70	184	-
St. John Paddington *H* -	37330	598	664	60	165	-	9	5	17	7	1	12	-	7	1	63	56	257	-
Kensington Town *Ww* -	120141	3374	2439	500	776	-	24	17	18	38	2	18	1	73	3	44	124	767	14
Brompton *H* - - -	43010	856	579	101	126	-	3	5	2	6	-	9	2	9	-	18	32	121	6
St. Peter Hammersmith -	7599	230	108	25	35	-	3	1	-	3	-	1	-	3	-	4	7	-	-
St. Paul Hammersmith *H*	64340	2493	1262	393	252	-	24	21	8	27	2	16	4	52	2	53	106	73	9
Fulham *WwH* - - -	42900	2285	1237	420	217	-	23	37	9	32	1	11	-	75	3	31	100	177	16
Chelsea South *HHH* - -	30396	1009	566	158	124	-	6	10	8	17	-	1	-	35	4	21	52	39	5
Chelsea Nth.-west *WHHHHH*	24925	865	894	172	216	-	14	3	1	10	-	6	-	42	2	15	54	449	2
Chelsea North-east - -	32807	1404	606	212	97	-	23	9	10	17	-	2	-	25	2	15	55	-	4
Hanover Square *H* - -	16862	288	173	37	54	-	-	1	3	3	-	-	1	4	-	6	11	-	4
Mayfair *WW* - - -	13491	224	491	46	241	-	5	1	1	4	-	2	1	7	-	2	8	396	1
Belgrave *HH* - - -	59220	1366	1181	204	242	-	8	9	23	14	-	19	6	16	1	85	107	433	22
St. John Westminster *HH*	35496	1216	676	190	123	1	22	7	5	19	-	12	-	32	-	22	46	30	15
St. Margaret Westmstr. *H* -	24679	555	542	78	105	-	11	1	14	9	1	14	-	15	-	41	59	203	15
Golden Square *WH* - -	11608	286	268	40	118	-	1	-	1	3	-	1	-	4	-	4	14	118	2
Berwick Street *H* - -	18383	402	257	68	59	-	2	2	-	6	-	1	-	9	-	9	14	-	5
St. Anne Soho *HHHHH* -	16608	403	246	62	36	-	2	3	1	1	-	-	-	12	-	11	17	58	5
NORTH DISTRICTS.																			
All Souls (Marylebo.) *HHHH*	26759	717	734	107	149	-	7	4	17	6	-	24	-	17	1	44	73	343	-
Cavendish Square *HH* -	14891	301	195	38	58	-	-	4	4	6	-	6	-	3	-	2	9	5	-
Rectory (Marylebone) *WH* -	24809	761	428	111	129	2	5	3	4	14	1	5	3	16	-	9	42	63	3
St. Mary (Marylebone) *HHH*	21118	1177	462	178	91	-	17	1	9	5	-	2	-	35	-	16	28	71	-
Christchurch (Marylebone) *H*	33700	1021	614	180	129	-	19	11	4	19	-	4	1	32	1	21	44	5	3
St. John (Marylebone) *H* -	33633	933	550	162	144	-	5	7	3	8	-	3	-	19	1	8	32	2	1
Hampstead *WwHHH* -	45452	1297	683	127	166	-	20	37	13	11	1	15	1	14	-	21	48	125	-
Regent's Park *H* - -	39115	1121	579	141	139	-	11	7	13	8	-	23	-	15	-	22	56	7	-
Tottenham Court *wHHH* -	27729	738	902	150	153	-	7	2	34	9	-	15	2	19	1	44	74	520	-
Gray's Inn Lane *HHH* -	30247	943	607	142	105	-	10	13	6	8	-	13	-	26	-	44	79	138	-
Somers Town *H* - -	34369	1159	620	170	124	-	15	9	4	19	-	11	-	19	-	22	72	27	1
Camden Town *WH* - -	17311	807	688	140	302	-	15	6	5	5	-	17	-	8	-	34	79	398	2
Kentish Town *w* - -	37487	2951	1569	364	357	-	32	12	22	24	-	41	2	53	1	38	108	267	6
Islington West *HHH*	121452	4417	2126	565	405	7	67	65	34	54	1	50	-	75	1	54	167	108	4
Islington East *WWwwH* -	161413	5471	3410	735	907	-	95	67	55	63	-	42	6	94	4	60	218	816	2
Stoke Newington *H* - -	22781	777	356	85	121	-	1	7	4	6	-	-	-	6	-	12	24	2	-
Stamford Hill - - -	9277	357	172	43	38	-	11	2	-	2	-	2	-	8	-	9	17	-	-
West Hackney - - -	37610	1300	631	170	147	-	13	10	7	8	-	8	1	20	-	17	38	-	3
Hackney *WwwwHL* - -	76911	2667	1913	371	440	56	68	127	16	32	9	49	2	38	3	60	118	682	10
South Hackney - - -	39883	1401	672	197	135	1	41	18	7	12	-	9	-	28	2	16	42	-	7
CENTRAL DISTRICTS.																			
St. George Bloomsbury -	16681	361	215	48	61	-	3	7	1	4	-	3	-	8	-	6	18	-	2
St. Giles South *WH* - -	14864	684	533	125	168	-	21	6	2	1	-	1	2	12	-	14	48	225	1
St. Giles North - - -	13837	391	251	83	36	-	9	3	5	4	-	3	1	10	-	12	33	-	1
St. Martin-in-the-Fields *HH*	17508	403	408	68	52	-	27	7	5	2	-	6	-	10	-	35	54	115	2
St. Mary-le-Strand *H* -	7515	153	120	23	23	-	9	2	1	1	-	2	1	3	-	6	15	7	2
St. Clement Danes *H* -	8559	209	382	75	45	-	22	8	10	3	-	6	-	7	-	52	47	214	4
St. Geo. the Martyr *HHHHH*	18671	528	433	77	73	-	13	2	21	17	-	5	-	9	1	10	21	135	2
St. Andrew Eastern *W* -	10706	316	195	53	39	-	9	5	-	1	1	5	-	8	-	2	16	42	-
Saffron Hill *H* - -	6533	221	141	31	34	-	6	4	-	4	-	1	1	8	-	2	16	-	-
St. James Clerkenwell -	17516	634	316	106	53	-	17	8	4	11	2	3	-	15	-	10	31	-	3
Amwell - - - -	19281	630	326	97	53	-	28	10	2	8	-	2	-	19	1	7	29	-	1
Pentonville - - - -	14773	520	244	70	43	-	7	6	1	3	-	2	1	8	1	7	26	-	1
Goswell Street - - -	17506	618	286	94	43	-	9	12	3	11	-	4	2	15	-	6	12	-	1
Old Street *H* - - -	11541	511	218	88	26	-	8	8	2	7	-	1	1	12	-	14	29	1	1
City Road *HHL* - -	18628	971	480	142	77	-	25	4	1	13	-	1	1	21	1	21	32	55	8
Whitecross Street - -	9217	333	171	74	23	1	9	6	1	2	-	-	1	10	1	8	16	-	1
Finsbury - - - -	7463	163	112	32	21	-	2	3	1	4	-	1	-	5	-	7	12	-	1
St. Botolph *H* - - -	11174	256	182	28	63	-	4	3	1	1	-	1	-	9	-	9	18	-	2
Cripplegate - - - -	7193	179	117	28	29	-	3	5	1	3	1	1	-	5	1	7	9	-	-
St. Sepulchre *H* - -	5358	99	761	46	87	-	7	10	27	2	2	23	-	9	-	105	138	678	4
St. Bride *W* - - -	8396	165	120	27	23	-	1	-	-	-	-	-	1	4	-	5	10	11	3
Allhallows Barking - -	13666	180	178	27	36	-	7	2	1	4	-	1	-	4	-	24	34	-	1
Broad Street *H* - - -	5652	80	87	13	24	-	1	-	-	-	-	-	-	1	-	2	4	2	-

NOTE.—The letters placed against the names of the sub-districts denote Public Institutions situated therein, namely:—*W*—Workhouse; *w*—Workhouse Establishment receiving inmates from other Districts than that in which it stands (see note at the foot of next page); *H*—Hospital; *L*—Lunatic Asylum. Deaths in Prisons and Military Asylums are not included.

TABLE 19 (*continued*). LONDON.—TOTAL **Births** and **Deaths**; DEATHS of INFANTS under 1 Year of Age, and of PERSONS aged 60 Years and upwards from all CAUSES; DEATHS from the principal ZYMOTIC DISEASES, and from VIOLENCE; INQUEST CASES, DEATHS in PUBLIC INSTITUTIONS, and UNCERTIFIED DEATHS; registered in each REGISTRATION SUB-DISTRICT during the 52 Weeks ending Saturday, 29th December 1883.

REGISTRATION SUB-DISTRICTS.	Enumerated **Population**, 1881.	Total BIRTHS in 52 Weeks.	Total DEATHS in 52 Weeks.	The DEATHS registered in the 52 Weeks include														
				Deaths of		Deaths from												
				Infants under 1 Year of Age.	Persons aged 60 Years and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus Fever.	Enteric (or Typhoid) Fever.	Simple continued Fever.	Diarrhœa.	Cholera.	Violence.	Inquest Cases.	Deaths in Public Institutions.	Uncertified.
EAST DISTRICTS.																		
Holywell (Shoreditch)	7376	265	112	31	20	-	4	6	-	3	-	1	-	6	-	4	8	-	2
St. Leonard (Shoreditch) *HL*‡	14967	510	290	87	43	1	12	21	1	4	-	-	-	13	-	8	18	25	6
Hoxton New Town *w*	29937	1252	859	208	304	-	16	25	3	11	-	4	1	42	-	24	52	279	2
Hoxton Old Town	28036	1139	519	159	85	-	16	29	5	3	-	5	-	28	3	17	36	-	5
Haggerston *WH*	46275	1945	1236	332	277	-	38	35	7	22	-	3	-	39	2	52	90	391	14
Hackney Road *H*	29738	1270	629	211	61	-	24	55	4	10	-	3	1	25	3	27	65	19	6
Green (Bethnal Green) *WHL*‡	47932	1979	1424	286	361	-	58	35	6	16	1	7	1	17	1	32	74	497	8
Church (Bethnal Green)	29981	1250	607	109	58	-	29	47	3	12	-	7	-	22	1	16	44	-	-
Town (Bethnal Green)	19310	811	406	142	45	-	23	19	1	3	-	3	1	25	1	19	36	-	1
Spitalfields *H*	22585	725	333	94	53	1	20	8	1	3	1	5	1	18	-	18	35	15	5
Mile End New Town *W*	15473	748	626	143	165	-	15	1	3	4	-	5	-	30	-	17	49	341	4
Whitechapel North	10001	318	138	42	15	-	12	3	2	2	-	3	-	8	-	6	13	-	3
Whitechapel Church *H*	7489	217	921	75	104	-	5	4	15	2	-	10	-	11	-	157	180	793	-
Goodman's Fields	9713	299	140	40	24	-	8	-	-	2	-	-	-	9	-	3	12	-	3
Aldgate	6102	165	95	26	8	-	3	2	-	3	-	1	-	2	-	7	16	-	3
St. Mary (St. Geo.-in-the-East)	18125	768	368	135	35	-	18	7	3	9	1	1	-	24	-	14	27	-	8
St. Paul (St. Geo.-in-the-East)	20622	780	395	134	47	-	15	13	4	17	1	2	-	18	1	10	24	-	2
St. John (St.Geo.-in-the-East) *W*	8410	353	480	68	149	-	13	9	-	11	-	4	-	14	-	9	21	314	7
Shadwell *H*	10395	362	463	124	37	-	10	15	24	13	-	3	-	13	1	42	51	218	2
Ratcliff	16107	490	259	72	48	-	14	15	3	8	-	4	2	7	-	11	20	-	2
Limehouse	32041	1301	670	208	80	-	37	49	8	19	-	8	-	33	-	40	78	-	17
Mile End Old Town Western	37960	1595	747	235	120	-	30	47	5	25	1	8	2	25	2	13	48	-	27
Mile End Old Town Eastn. *WwwH*	67653	2617	1509	344	342	1	65	83	14	43	5	14	2	31	2	38	102	294	22
Bow	37074	1436	671	178	97	-	34	37	5	22	-	8	1	21	-	26	62	-	2
Bromley *wwwH*	64359	2854	1973	437	478	1	97	64	10	17	1	20	3	60	-	89	176	712	2
Poplar *WW*	55077	2104	1075	297	165	2	49	45	12	17	-	5	4	45	2	100	179	70	16
SOUTH DISTRICTS.																			
Christchurch Southwark *WH*	13663	500	330	74	105	-	6	5	4	4	-	-	-	5	-	13	24	80	5
St. Saviour Southwark *H*	14999	509	279	82	41	-	12	11	1	6	-	2	-	15	-	9	15	-	3
Kent Road	21381	865	420	130	50	-	21	23	5	5	-	1	1	23	1	10	43	-	6
Borough Road *WH*	15953	687	384	129	47	-	6	12	7	9	-	1	2	19	-	9	36	74	8
London Road *HL*	21318	713	378	110	64	-	8	13	1	6	-	-	2	11	-	16	30	37	-
Trinity Newington	26672	1042	505	188	78	-	38	9	3	14	1	2	1	29	-	11	21	-	16
St. Peter Walworth *W*	59555	2306	1571	337	415	2	63	14	10	11	-	13	-	43	-	14	27	532	41
St. Mary Newington	21623	902	465	151	75	1	29	14	7	2	-	8	1	19	-	9	18	-	17
St. Olave Southwark *WH**	11956	381	770	89	101	-	9	6	16	1	-	10	-	13	-	123	143	510	2
Leather Market	16300	617	343	116	45	-	18	13	1	8	-	1	-	16	-	8	21	-	12
St. Mary Magdalen *W*	15669	610	392	84	145	-	7	11	1	1	-	2	-	10	-	12	16	134	6
St. James Bermondsey	54683	2208	987	297	125	-	42	77	14	16	3	10	-	40	1	23	49	-	25
Rotherhithe *W*	36024	1427	800	192	155	-	23	19	4	5	-	6	-	30	1	41	61	139	15
Waterloo Road First *H*	15195	591	369	113	50	-	7	12	2	8	2	4	-	18	1	10	13	50	13
Waterloo Road Second *H*	16351	934	344	114	53	-	8	4	1	10	-	3	-	9	-	13	32	18	5
Lambeth Church First *H*	19876	747	801	120	104	-	5	11	14	15	1	6	1	17	-	100	117	438	8
Lambeth Church Second *WW*	39859	1668	1254	265	383	1	58	10	4	20	-	4	1	39	-	21	30	565	21
Kennington First	45232	1622	832	180	195	1	51	16	20	27	-	9	2	21	2	13	18	-	26
Kennington Second	35332	1021	556	119	158	-	12	4	10	12	-	6	-	24	1	14	19	-	17
Brixton *ww*	62837	2038	971	251	209	13	14	67	14	32	3	21	1	30	2	13	21	97	29
Norwood *W*	19017	583	245	70	58	1	1	1	2	2	-	1	1	4	2	5	9	3	8
Clapham *H*	36389	1085	580	154	129	-	32	8	7	16	-	3	1	19	-	10	19	6	7
East Battersea† -	54675	4711	2844	726	427	-	77	43	8	99	2	25	-	113	2	47	79	290	46
West Battersea† *Ww*	52587																		
Wandsworth *HL*	28004	907	501	97	129	-	15	5	11	5	1	11	-	10	-	24	39	104	4
Putney	13235	349	241	43	63	-	2	7	24	2	-	1	-	4	1	15	19	-	8
Streatham	25553	1027	419	95	118	-	7	2	13	11	-	8	-	9	-	6	10	-	10
Dulwich	5590	93	42	4	17	-	-	-	-	2	-	-	-	1	1	3	6	-	3
Camberwell *WL‡L‡*	59104	2204	1323	265	379	-	28	9	19	33	-	9	1	37	1	26	47	369	5
Peckham *W*	71089	2627	1190	368	233	-	43	15	10	37	-	9	-	43	1	30	65	5	30
St. George (Camberwell)	50810	1999	859	260	136	5	39	20	7	20	1	9	1	24	1	17	39	-	29
St. Paul Deptford *ww*	76752	3148	1517	428	232	34	39	96	19	41	5	34	2	51	-	32	56	82	82
St. Nicholas Deptford	7901	297	168	47	19	-	6	8	1	7	-	3	1	8	-	5	8	-	10
Greenwich West	21972	632	382	62	104	1	14	11	9	11	-	5	2	7	-	11	19	-	9
Greenwich East *WHH*	24608	965	846	151	233	1	9	5	7	29	1	8	-	23	-	31	46	459	15
Eltham *H*	5827	151	65	21	18	-	-	1	4	-	-	-	-	6	-	4	3	-	-
Lee	21559	511	239	50	80	-	-	5	2	6	-	3	-	1	-	4	8	-	1
Lewisham *WH*	19865	816	369	87	112	-	8	10	4	10	-	1	-	7	-	10	15	63	11
Sydenham *H*	26076	868	372	122	82	-	12	4	7	6	-	3	1	20	-	6	6	7	8
Charlton *H*	10930	253	199	30	43	-	8	4	8	5	-	3	1	3	-	10	11	44	9
Woolwich Dockyard	17617	543	265	64	53	-	18	3	1	13	-	3	2	7	1	8	9	-	8
Woolwich Arsenal *HHH*	19048	677	367	86	70	-	14	3	2	10	-	3	-	6	3	18	24	17	11
Plumstead West *H*	14009	457	229	42	60	-	10	1	7	10	-	3	-	5	1	4	6	1	10
Plumstead East *W*	19241	790	462	89	122	-	11	2	4	14	-	2	-	6	-	21	28	167	9

The following WORKHOUSE Establishments receive inmates from other Districts than the one in which they stand, and are indicated in the above Table by *w*:—

Marylebone Infirmary in Kensington Town sub-district.
Central London Sick Asylum in Tottenham-court sub-district.
" " " Kentish Town sub-district.
London City Workhouse " Islington East sub-district.
Holborn Infirmary " " "
London City Workhouse " Hackney sub-district.
Holborn " " Hoxton New Town sub-district.
Whitechapel " " Mile End Old Town Eastern sub-dist.

London City Workhouse in { Mile End Old Town Eastern sub-dist. and Bromley sub-district.
Stepney " " Bromley sub-district.
Poplar & Stepney Sick Asylum " "
Westminster Union Industrial School in West Battersea sub-district.
Metropolitan Asylum District Hospitals in Fulham, Hampstead, Hackney, Brixton, and St. Paul Deptford sub-districts.

* The sub-district of St. Olave Southwark now includes the parish of St. John Horsleydown, which prior to the 1st February formed a separate sub-district.

† The two sub-districts of East Battersea and West Battersea were comprised in one registration sub-district prior to 1st July.

‡ Private Lunatic Asylums in which paupers are received.

TABLE 20. LONDON—OUTER RING.—POPULATION, BIRTHS, DEATHS from ALL CAUSES and from SMALL-POX, MEASLES, SCARLET FEVER, DIPHTHERIA, WHOOPING-COUGH, FEVER, DIARRHŒA, VIOLENCE; INQUEST CASES, DEATHS in PUBLIC INSTITUTIONS, and UNCERTIFIED DEATHS; registered in each REGISTRATION SUB-DISTRICT during the 52 Weeks ending Saturday, 29th December 1883.

District and Sub-district Numbers.	REGISTRATION SUB-DISTRICTS.	Area in Acres, including Tidal Water and Foreshore.	Enumerated Population, 1881.	BIRTHS.	DEATHS.	The DEATHS registered in the 52 Weeks include													
						Deaths of		Deaths from											
						Infants under 1 Year of Age.	Persons aged 60 Years & upwds.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Fever.	Diarrhœa.	Cholera.	Violence.	Inquest Cases.	Deaths in Public Institutions.	Uncertified Causes of Death.
	LONDON—OUTER RING	370,282	950,178	35,625	17,223	4316	4284	14	338	353	230	392	194	517	19	524	872	1927	296
30 : 1	Carshalton *wL*	12228	21118	567	442	54	122	–	1	4	10	3	1	4	–	8	9	202	2
2	Epsom (*part of*) * *WH*	9971	10710	299	203	27	76	–	–	26	1	–	1	2	1	3	8	58	8
37 : 1	Godstone (*part of*) *	2754	1235	43	11	2	4	–	–	–	–	–	–	–	–	1	2	–	–
38 : 1	Croydon *WwH*	20851	101241	3368	1514	358	440	–	19	19	12	27	19	35	1	33	62	207	10
2	Mitcham *wH*	11697	17932	602	224	59	62	–	1	1	2	2	2	3	–	4	9	4	6
39 : 1	Wimbledon *HHH*	3220	15950	643	221	70	48	–	1	1	–	2	–	11	2	9	16	8	1
2	Kingston *WHH*	8549	36354	1124	622	137	192	–	–	10	5	16	4	10	–	11	23	97	11
3	Esher (*part of*) *	6601	9221	302	148	31	39	–	2	4	4	–	1	5	–	3	10	–	–
4	Hampton *H*	4573	13539	435	201	47	54	–	–	1	5	15	2	7	–	19	19	–	1
40 : 1	Richmond *WH*	2272	21302	638	411	90	140	–	1	3	3	11	10	26	–	16	16	78	4
2	Mortlake	2941	12331	430	218	54	44	–	1	6	11	11	1	6	–	7	11	–	3
41 : 1	Bromley (*part of*) * *HH*	15669	31142	1091	409	98	106	1	7	1	3	7	8	7	–	16	17	9	18
2	Chislehurst (*part of*) * *W*	13665	15065	517	269	46	86	–	12	–	4	2	1	3	–	11	11	47	5
42 : 1	Bexley *H*	13437	24134	806	355	78	111	–	4	2	–	5	5	8	–	17	19	7	8
124 : 1	Sunbury *w*	11055	11685	303	159	35	40	–	3	1	1	2	5	4	–	3	6	9	1
2	Staines *W*	13277	12089	424	212	37	84	–	2	2	1	3	8	10	–	3	9	46	–
125 : 1	Hillingdon *WH*	6029	10802	380	262	48	82	–	21	6	1	10	2	2	–	7	14	55	2
2	Uxbridge	6178	5225	159	92	20	23	–	1	–	–	–	–	2	–	3	10	–	–
3	Hayes *wHL*	14587	11523	349	237	37	90	–	1	5	–	1	3	3	–	14	16	136	7
126 : 1	Isleworth *W*	7008	22727	694	504	111	156	–	–	11	2	2	6	14	–	16	41	122	4
2	Twickenham	2477	12479	376	213	40	65	–	1	4	4	3	–	7	–	6	7	1	4
3	Brentford *HL*	4845	27649	920	412	83	110	–	6	8	4	11	4	18	1	15	26	6	4
4	Chiswick	1340	15975	643	333	109	65	–	12	5	2	5	4	14	–	10	15	–	–
5	Acton *wH*	6083	22876	924	388	119	87	1	8	20	2	1	3	15	–	5	19	14	5
127 : 1	Harrow *HH*	13809	12796	378	179	34	47	–	3	–	13	2	2	6	–	9	15	2	–
2	Edgware *H*	6994	3749	112	61	12	16	–	–	2	2	–	1	–	–	3	5	2	–
3	Willesden	4383	27453	1165	539	190	79	–	6	8	5	14	4	28	1	16	37	–	2
4	Hendon *W*	8382	10484	403	213	51	55	–	3	10	16	5	2	6	–	7	15	35	–
128 : 1	South Mimms	15599	6391	209	90	20	38	–	–	3	1	–	2	4	–	4	4	–	2
2	Barnet *W*	5433	10092	310	152	31	57	–	3	–	–	–	4	3	1	5	10	36	6
3	Finchley *L*	4688	17615	601	418	44	113	–	5	2	7	6	2	5	–	10	16	205	–
129 : 1	Hornsey *H*	3039	37078	1270	504	131	115	1	12	5	5	8	9	17	3	18	37	6	–
2	Tottenham *H*	4642	46456	2405	1008	309	181	–	41	28	34	25	6	35	2	46	87	33	34
3	Edmonton *Www*	7483	23463	955	623	134	234	2	9	8	5	12	6	21	1	8	26	241	9
4	Enfield *WH*	12653	19104	787	314	101	70	–	9	3	1	13	4	8	–	11	15	3	13
5	Waltham Abbey	11017	5368	186	88	11	28	–	1	–	3	2	–	2	–	3	3	–	5
6	Cheshunt	8480	7735	250	135	30	49	–	–	1	2	2	–	–	–	10	12	–	–
135 : 1	Hatfield (*part of*) *	3306	583	15	6	–	1	–	1	–	–	–	–	–	–	–	–	–	–
137 : 1	Bushey	9331	6621	194	115	28	37	–	–	–	1	–	2	4	–	1	1	–	–
186 : 1	Stratford	882	38606	1730	806	264	121	1	30	15	5	48	12	25	–	13	23	–	8
2	West Ham *wwwH*	7351	101053	4844	2093	699	243	6	76	77	28	66	23	88	3	53	97	11	63
3	Leyton *Ww*	4372	32430	1327	808	151	255	1	7	29	9	15	9	21	–	16	20	241	16
4	Walthamstow *H*	6520	28869	1310	476	151	113	–	16	13	6	22	6	18	2	23	29	3	23
187 : 1	Chigwell (*part of*) * *H*	11761	9669	320	172	36	50	1	10	3	8	2	4	2	1	10	11	3	2
189 : 1	Romford (*part of*) *	6730	3411	124	38	15	10	–	–	–	–	–	–	2	–	3	3	–	–
2	Ilford	8493	7645	285	119	32	27	–	2	2	2	1	6	3	–	5	6	–	5
3	Barking Town	4127	9203	408	156	52	24	–	–	4	–	10	–	3	–	5	5	–	4

* The parts of sub-districts included within that portion of the Metropolitan Police District which forms the Outer Ring are as follow:—30 : 2, the whole of Epsom sub-district, except the parishes of Ashstead and Headley (pop. 1265); 37 : 1, the two parishes of Warlingham and Farley in Godstone sub-district; 39 : 3, the whole of Esher sub-district, except the parish of Esher (pop. 1993); 41 : 1, the whole of Bromley sub-district, except the two parishes of Cudham and Knockholt (pop. 1818); 41 : 2, the whole of Chislehurst sub-district, except the parish of Chelsfield (pop. 947); 135 : 1, only the parish of Northaw in Hatfield sub-district; 187 : 1, the whole of Chigwell sub-district, except the parish of Theydon-Bois (pop. 875); 189 : 1, only the parish of Dagenham in Romford sub-district.

TABLE **21.—Deaths** in **London**; and **Meteorology** at **Greenwich Observatory.** (*a*)

YEARS.	Total Number of Deaths.	Mean Temperature of Air.	Dryness of Atmosphere.*	Fall of Rain in Inches.	Mean Hourly Amount of Horizontal Movement of the Air by Robinson's Anemometer.†
		°	°		Miles.
Averages of 40 Years, 1841–1880.	66,484	49·3	5·6	24·7	‡8·3
Averages of 10 Years, 1841–1850.	52,206	49·4	5·2	24·5	—
Averages of 10 Years, 1851–1860.	61,023	49·0	5·7	24·4	10·0
Averages of 10 Years, 1861–1870.	73,632	49·6	5·9	23·9	10·8
Averages of 10 Years, 1871–1880.	79,075	49·2	5·5	26·4	11·6
1841	45284	48·7	5·0	33·3	—
1842	45272	49·6	4·6	22·6	—
1843	48574	49·4	3·7	24·6	—
1844	50423	48·6	4·9	24·9	—
1845	48332	47·6	4·4	22·4	—
1846	49089	51·3	5·1	25·3	—
1847	60442	49·5	5·4	17·8	—
1848	57628	50·4	6·4	30·2	—
1849	68432	50·0	6·6	23·9	—
1850	48579	49·3	6·1	19·7	11·0
1851	55354	49·2	6·5	21·6	10·3
1852	54213	50·6	7·4	34·2	10·6
1853	61202	47·7	6·2	29·0	9·5
1854	73697	48·9	4·7	18·7	10·3
1855	61506	47·1	4·5	21·1	9·9
1856	56786	49·0	5·6	22·2	10·6
1857	60150	51·0	5·2	21·4	9·3
1858	63882	49·2	6·5	17·8	9·7
1859	61617	50·7	6·0	25·9	9·5
1860	61821	47·0	4·6	32·0	10·0
1861	65001	49·4	5·0	20·8	9·9
1862	66950	49·5	4·7	26·2	10·0
1863	72346	50·3	6·0	20·0	10·3
1864	77723	48·5	7·0	16·7	9·5
1865	73460	50·3	6·2	29·0	9·3
1866	80129	49·8	5·6	30·5	11·4
1867	70588	48·6	5·6	28·4	11·8
1868	74908	51·6	6·8	25·2	12·2
1869	77933	49·5	5·7	24·0	12·2
1870	77278	48·7	6·7	18·5	11·1
1871	80332	48·7	6·0	22·3	10·5
1872	70893	50·7	5·5	30·0	11·9
1873	76634	48·9	5·4	23·4	11·8
1874	76606	49·4	4·7	20·0	11·5
1875	81513	49·4	5·9	27·3	11·5
1876	77411	50·1	6·4	23·9	12·1
1877	77002	49·7	6·6	26·8	13·0
1878	83695	49·6	5·8	29·2	11·1
1879	85540	46·2	4·0	31·3	11·3
1880	81128	49·4	5·0	29·7	11·7
1881	81071	48·8	5·7	25·2	12·1
1882	82905	49·7	5·0	25·1	12·8
1883	80578	49·4	5·8	21·9	12·1

NOTE.—This Table does not include the deaths in Wandsworth and Clapham for the years 1841-3; nor the deaths in Hampstead and Lewisham for 1841-6.

(*a*) The deaths in this Table as well as the Meteorology are compiled from the Registrar General's Weekly Returns, which embrace 364 days (for seven years 1847, 1853, 1857, 1863, 1868, 1873, and 1879, 371 days); for this reason the figures differ from those which relate to complete years from 1st January to 31st December, published in Table 17.

* The column headed "Dryness of Atmosphere" shows the difference between the dew point temperature and air temperature. The mean dew point temperature, for any year, may be obtained by subtracting the number in the column headed "dryness" from the mean temperature in the same period.

† For the years 1850–59 the results are only approximative, having been reduced to Robinson's anemometer from observations made with Whewell's.

‡ Average of 30 years.

TABLE **22.—Deaths** REGISTERED in the **Public Institutions** of **London,** 1873–1883.

	1873.	1874.	1875.	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.
TOTAL DEATHS IN PUBLIC INSTITUTIONS	13101	13359	13946	14073	14936	15502	15999	14730	16965	15792	16707
WORKHOUSES (including the Metropolitan Asylum Hospitals)	7416	7619	8015	8174	9134	9606	9946	9059	10692	9375	9968
PRISONS	62	70	77	69	62	46	57	59	50	38	45
MILITARY AND NAVAL ASYLUMS	66	81	96	79	69	75	88	64	68	51	55
GENERAL HOSPITALS	4148	4310	4420	4442	4318	4549	4651	4435	4880	5144	5304
HOSPITALS FOR SPECIAL DISEASES	584	392	436	483	612	531	497	472	574	476	594
LYING-IN HOSPITALS — Women	29	18	20	33	34	9	21	18	22	23	21
LYING-IN HOSPITALS — Children	56	62	49	68	43	23	46	44	49	54	84
MILITARY AND NAVAL HOSPITALS	207	206	238	184	203	192	211	184	202	186	207
HOSPITALS FOR FOREIGNERS	128	115	122	100	113	138	143	127	135	170	148
LUNATIC ASYLUMS	405	486	473	441	348	333	339	268	293	275	281

TABLE 23.—**Deaths in 158 Public Institutions,** registered

	DEATHS.		
	Total.	Males.	Females.
TOTAL DEATHS IN 158 PUBLIC INSTITUTIONS	16707	9456	7251
53 WORKHOUSES	9968	5368	4600
11 PRISONS	45	32	13
1 MILITARY ASYLUM	55	55	–
43 GENERAL HOSPITALS	5304	3183	2121
27 HOSPITALS FOR SPECIAL DISEASES	594	307	287
4 LYING-IN HOSPITALS — *Women*	21	–	21
4 LYING-IN HOSPITALS — *Children*	84	44	40
6 MILITARY AND NAVAL HOSPITALS	207	195	12
3 HOSPITALS FOR FOREIGNERS	148	121	27
7 LUNATIC ASYLUMS	281	151	130

PUBLIC INSTITUTIONS.	SUB-DISTRICT in which the Public Institution is situated.	DEATHS. Total.	Males.	Females.
WORKHOUSES.				
Paddington	1; 1. St. Mary Paddington	175	81	94
Kensington (Workhouse and Infirmary)	1; 3. Kensington Town	319	164	155
Marylebone Infirmary	1; 3. *Kensington Town*	428	219	209
Fulham	2; 3. Fulham	157	77	80
Metrop. Asylum Hospital	2; 3. *Fulham*	20	14	6
Chelsea (Workhouse and Infirmary)	3; 2. Chelsea North-west	270	142	128
St. George's (Fulham Road)	4; 2. Mayfair	395	220	175
Ditto (Mount-street)	4; 2. Mayfair	1	1	–
Westminster	5; 1. Golden Square	118	55	63
Marylebone (Workhouse and Infirmary)	6; 3. Rectory (Maryleb.)	49	17	32
Hampstead	7; 1. Hampstead	40	26	14
Metrop. Asylum Hospital	7; 1. *Hampstead*	45	26	19
Central London Sick Asylum	8; 2. *Tottenham Court*	150	93	57
Pancras (Workhouse and Supplementary Workh.)	8; 5. Camden Town	386	179	207
Highgate Infirmary (Central London Sick Asylum)	8; 6. *Kentish Town*	267	158	109
Islington (Workhouse and Infirmary)	9; 2. Islington East	492	240	252
Islington (Workhouse Schools)	9; 2. Islington East	2	2	–
Holborn Infirmary (College House)	9; 2. *Islington East*	318	181	137
City of London	9; 2. *Islington East*	2	1	1
Hackney	10; 4. Hackney	308	155	153
City of London	10; 4. *Hackney*	24	15	9
Metrop. Asylum Hospitals	10; 4. *Hackney*	229	115	114
St. Giles (Workhouse and Infirmary)	11; 2. St. Giles South	222	121	101
Holborn	13; 2. St. Andrew Eastern	42	29	13
City of London	14; 4. St. Bride	11	7	4

PUBLIC INSTITUTIONS.	SUB-DISTRICT in which the Public Institution is situated.	DEATHS. Total.	Males.	Females.
WORKHOUSES—*continued.*				
Holborn	13; 3. *Hoxton New Town*	279	129	150
Shoreditch (Workhouse and Infirmary)	15; 5. Haggerston	336	184	152
Bethnal Green	16; 2. Green	371	220	151
Whitechapel (Workhouse and Infirmary)	17; 2. Mile End New Town	341	202	139
St. George-in-the-East	18; 3. St. John	314	172	142
Mile End Old Town	20; 2. Eastern	201	93	108
Whitechapel (South Grove)	20; 2. *Mile End Old Town Eastern*	13	11	2
City of London part of	20; 2. *Mile End Old Town Eastern*	76	2	74
City of London ditto	21; 2. *Bromley*	155	116	39
Poplar and Stepney Sick Asylum	21; 2. *Bromley*	497	286	211
Stepney (Aged and Infirm)	21; 2. *Bromley*	21	10	11
Poplar	21; 3. Poplar	59	33	26
North Street Infirmary	21; 3. Poplar	11	6	5
St. Saviour's	22; 1. Christch. Southwrk.	80	75	5
Ditto	22; 4. Borough Road	27	19	8
Ditto	22; 7. St. Peter Walworth	532	279	253
St. Olave's	23; 1. St. Olave Southwk.	21	6	15
Ditto	23; 3. St. Mary Magdalen	134	75	59
Ditto	23; 5. Rotherhithe	139	82	57
Lambeth (Workhouse and Infirmary)	24; 4. Lambeth Church 2d	565	313	252
Metrop. Asylum Hospitals	24; 7. *Brixton*	97	49	48
Lambeth (*for Children*)	24; 8. Norwood	3	3	–
Wandsworth (Workhouse and Infirmary)	25; 2. Battersea	290	159	131
Camberwell (Workhouse and Infirmary)	26; 2. Camberwell	281	155	126
Camberwell (Gordon Rd.)	26; 3. Peckham	5	3	2
Metrop. Asylum Hospital	27; 1. *St. Paul Deptford*	82	37	45
Greenwich	27; 4. Greenwich East	338	182	156
Lewisham	28; 3. Lewisham	63	36	27
Woolwich (Workhouse and Infirmary)	29; 5. Plumstead East	167	93	74
PRISONS.*				
Wormwood Scrubbs Convict Prison	2; 2. St. Paul Hammers.	5	5	–
Female Convict Prison	2; 3. Fulham	1	–	1
Millbank Penitentiary	4; 4. St. John Westmr.	2	–	2
House of Correction	4; 5. St. Margaret Westmr.	9	–	9
Pentonville, Model Prison (*Males*)	9; 1. Islington West	4	4	–
City Prison (*Holloway*)	9; 1. Islington West	3	3	–
Middlesex House of Detention	13; 4. St. James Clerknwll.	2	1	1
Middlesex House of Correction (*Males*)	13; 5. Amwell	7	7	–
City Prison (*Newgate*)	14; 3. St. Sepulchre	1	1	–
Convict Prison (*Males*)	24; 7. Brixton	1	1	–
County Prison	25; 4. Wandsworth	10	10	–
MILITARY ASYLUM.				
Royal Military Hospital Chelsea, *In-Pensioners*	3; 1. Chelsea South	55	55	–

NOTE.—The Workhouse Establishments printed in *italics* receive inmates from other Districts than those in which they are situated.

* PRISONS.—The deaths of the children of prisoners are not included.

during the 52 Weeks ending Saturday, 29th December 1883.

PUBLIC INSTITUTIONS.	SUB-DISTRICT in which the Public Institution is situated.	DEATHS. Total.	Males.	Females.
GENERAL HOSPITALS.				
For Children	1; 1. St. Mary Paddington	4	1	3
St. Mary's	1; 2. St. John Paddington	257	153	104
West London	2; 2. St. Paul Hammersm.	73	47	26
Cheyne (*Children*)	3; 1. Chelsea South	8	2	6
Victoria (*Children*)	3; 1. Chelsea South	30	14	16
St. Raphael's	3; 2. Chelsea North-west	7	7	-
St. George's	4; 3. Belgrave	421	266	155
Belgrave (*Children*)	4; 3. Belgrave	12	5	7
Westminster	4; 5. St. Margaret Westm.	203	131	72
Home	5; 3. St. Anne, Soho	1	1	-
For Sick Children	6; 1. All Souls Marylebone	1	1	-
Middlesex	6; 1. All Souls Marylebone	337	166	171
Ladies'	6; 2. Cavendish Square	5	-	5
Samaritan Free	6; 3. Rectory Marylebone	14	-	14
Home	7; 1. Hampstead	1	-	1
St. Peter's Home	7; 1. Hampstead	22	1	21
Home (Fitzroy House)	8; 2. Tottenham Court	12	8	4
University College	8; 2. Tottenham Court	355	218	137
Royal Free	8; 3. Gray's Inn Lane	132	86	46
London Temperance	8; 4. Somers Town	26	10	16
North-west London	8; 5. Camden Town	12	5	7
Great Northern	9; 1. Islington West	29	15	14
Cottage	9; 2. Islington East	2	1	1
Invalid Asylum	10; 1. Stoke Newington	2	-	2
Charing Cross	12; 1. St. Martin-in-the-Fields	116	78	38
King's College	12; 3. St. Clement Danes	214	138	76
Homœopathic	13; 1. St. George the Martyr	21	12	9
St. John and St. Elizabeth	13; 1. St. George the Martyr	29	1	28
For Sick Children	13; 1. St. George the Martyr	79	46	33
St. Bartholomew's	14; 3. St. Sepulchre	678	421	257
Convent	15; 2. St. Leonard	8	3	5
North-Eastern (*Children*)	15; 5. Haggerston	55	30	25
Mildmay Mission	16; 1. Hackney Road	19	12	7
Metropolitan Free	17; 1. Spitalfields	15	11	4
London	17; 4. Whitechapel Church	793	477	316
East London Children's	19; 1. Shadwell	218	126	92
Poplar	21; 1. Bromley	39	34	5
Evelina (*Children*)	22; 4. Borough Road	47	24	23
Guy's	23; 1. St. Olave	489	326	163
Royal Infirmary (*Women and Children*)	24; 1. Waterloo 1st part	50	20	30
St. Thomas's	24; 3. Lambeth Church 1st	438	276	162
British Home for Incurables	25; 1. Clapham	6	2	4
Royal Hospital for Incurables	25; 4. Wandsworth	14	5	9
Cottage	27; 4. Greenwich East	2	-	2
Home for Sick Children	28; 4. Sydenham	7	3	4
Home for Convalescent Children	29; 4. Plumstead West	1	-	1
HOSPITALS FOR SPECIAL DISEASES.				
Lock (for *Syphilis*)	1; 1. St. Mary Paddington	5	1	4
Consumptn. & Dis. of Chest	1; 4. Brompton	121	76	45
Chelsea Home (Consmpn.)	3; 1. Chelsea South	1	1	-
Cancer	3; 2. Chelsea North-west	77	12	65
For Women	3; 2. Chelsea North-west	1	-	1
Brompton Consumption (South Branch)	3; 2. Chelsea North-west	93	63	30
St. Anne's Home (Consumption)	3; 2. Chelsea North-west	1	-	1
For Women (Vincent Square)	4; 4. St John, St. Geo., Hanover Square	3	-	3
For Women	5; 3. St. Anne Soho	26	1	25
National, for Dis. of Heart and Paralysis	5; 3. St. Anne Soho	7	5	2
Male Lock	5; 3. St. Anne Soho	1	1	-
St. Agnes (Consumption)	6; 1. All Souls (Maryleb.)	4	-	4
National, for the Deformed	6; 1. All Souls (Maryleb.)	1	-	1
New (for Women)	6; 5. Christch. (Maryleb.)	5		5
Dis. of Nervous System	6; 6. St. John (Maryleb.)	2	2	-
North London (Consumption)	7; 1. Hampstead	17	10	7
St. Saviour's (Cancer)	8; 1. Regent's Park	7	-	7
All Saints Institution (Women)	8; 2. Tottenham Court	2	-	2
Central London Throat and Ear	8; 3. Gray's Inn Lane	6	5	1
Small-pox	9; 1. Islington West	7	3	4
London Fever	9; 1. Islington West	72	38	34
St. Peter's (Stone)	12; 2. St. Mary-le-Strand	7	7	-
National for Paralysed and Epileptic	13; 1. St. George the Martyr	6	3	3
St. Mark's (Fistula)	13; 8. Old Street	1	-	1
Royal for Dis. of Chest	13; 9. City Road	30	16	14
Royal London Ophthalmic	14; 6. Broad Street	2	-	2
City of London for Diseases of the Chest	16; 2. Green	89	63	26
LYING-IN HOSPITALS.				
Queen Charlotte's	6; 4. St. Mary (Marylebone) Women	7	-	7
	Children	64	33	31
British	11; 2. St. Giles South Women	1	-	1
	Children	2	2	-
City of London	13; 9. City Road Women	10	-	10
	Children	3	2	1
General (York Road)	24; 2. Waterloo Road 2d Women	3	-	3
	Children	15	7	8
MILITARY AND NAVAL HOSPITALS.				
Guards'	4; 4. St. John Westminster	27	27	-
Seamen's	27; 4. Greenwich East	119	116	3
Herbert	29; 1. Charlton	44	43	1
Garrison Female	29; 3. Woolwich Arsenal	14	6	8
Arsenal Infirmary	29; 3. Woolwich Arsenal	2	2	-
Auxiliary	29; 3. Woolwich Arsenal	1	1	-
HOSPITALS FOR FOREIGNERS.				
French	5; 3. St. Anne Soho	23	17	6
German	10; 4. Hackney	121	103	18
Spanish and Portuguese Jews'	20; 2. Mile End Old Town Eastern	4	1	3
LUNATIC ASYLUMS.*				
St. Luke's Hospital	13; 9. City Road	12	4	8
Hoxton House*	15; 2. St. Leonard	17	4	13
Bethnal House*	16; 2. Green	37	16	21
Bethlehem Hospital	22; 5. London Road	37	21	16
Surrey County	25; 4. Wandsworth	90	58	32
Peckham House*	28; 2. Camberwell	50	27	23
Camberwell House*	26; 2. Camberwell	38	21	17

* Lunatic Asylums.—Private Lunatic Asylums are excluded from this list, except those in which *pauper* lunatics are received, which are marked with an asterisk.

TABLE **24.** LONDON.—**Weekly Deaths** from **Small-pox, Measles, Scarlet Fever, Diphthe**
WEEKLY Numbers from Six of these DISEASES during the Forty-

	SMALL-POX.				MEASLES.				SCARLET FEVER.				DIPHTHERIA.			
	1880	1881	1882	1883	1880	1881	1882	1883	1880	1881	1882	1883	1880	1881	1882	18
YEAR	475	2371	431	134	1501	2533	2329	2420	3073	2108	2004	1989	541	654	863	9
March Quar.	122	617	212	52	340	484	545	483	785	425	352	417	131	131	201	2
June „	144	1018	128	27	357	904	629	795	682	371	348	325	125	143	215	2
Sept. „	49	461	53	23	294	584	401	655	720	623	505	546	131	137	218	2
Dec. „	160	275	38	32	510	561	754	487	886	689	799	701	154	243	229	2
Weeks.																
1	8	33	20	5	48	71	53	50	73	41	44	37	11	11	13	
2	4	27	21	7	40	54	44	46	89	50	38	31	10	12	14	
3	3	42	20	3	30	52	49	56	83	44	28	42	13	9	17	
4	11	52	24	8	33	28	39	33	70	45	28	40	10	8	14	
5	13	54	13	5	34	39	36	28	66	38	21	45	6	12	18	
6	12	52	17	2	23	20	41	29	56	28	20	33	13	17	16	
7	13	55	17	3	18	23	46	20	57	36	24	29	11	10	6	
8	13	44	8	6	18	22	35	28	46	20	34	36	5	8	13	
9	8	52	23	7	17	18	42	19	44	27	20	27	5	9	14	
10	13	58	19	2	15	26	34	29	51	20	28	19	13	9	15	
11	11	45	8	1	20	44	36	51	45	22	26	20	18	9	13	
12	4	49	13	3	20	48	46	36	46	28	20	29	5	7	19	
13	9	56	9	–	24	39	44	58	59	26	21	29	11	10	29	
14	13	72	14	1	26	63	51	51	49	19	20	15	11	11	21	
15	9	77	8	2	22	62	49	57	47	28	23	14	8	9	28	
16	15	84	8	2	31	59	36	46	46	24	16	21	10	10	19	
17	18	70	16	1	31	60	57	40	35	30	32	17	15	6	14	
18	10	88	13	2	22	81	54	55	67	32	25	22	15	12	14	
19	8	69	10	3	24	77	47	60	47	30	26	29	7	16	13	
20	10	103	9	1	22	66	36	66	37	23	31	29	5	9	12	
21	10	92	10	1	30	86	46	77	68	33	23	36	11	8	13	
22	8	82	6	2	32	85	50	67	60	32	37	24	7	9	12	
23	10	59	10	3	32	64	58	76	65	25	19	31	8	11	18	
24	6	82	15	3	23	66	32	59	59	36	30	27	9	10	20	
25	14	88	9	2	25	71	62	65	57	24	36	31	10	14	19	
26	13	52	–	4	37	64	51	76	45	35	30	29	9	18	12	
27	4	73	6	1	37	70	33	65	62	41	28	35	9	8	16	
28	3	49	4	–	29	73	44	70	57	53	26	30	11	7	8	
29	3	43	4	–	32	67	37	77	53	35	28	32	12	9	13	
30	4	39	2	6	39	63	40	63	77	46	47	32	6	18	9	
31	2	38	1	1	26	60	33	68	50	45	38	39	12	4	15	
32	6	29	4	2	38	48	25	56	58	57	39	59	8	12	19	
33	4	38	5	2	23	58	41	70	49	51	40	35	7	9	17	
34	3	36	1	1	16	33	27	53	53	53	36	49	13	16	18	
35	5	22	7	4	15	35	32	57	47	40	42	40	10	8	18	
36	5	27	9	1	7	27	29	19	55	48	38	43	8	14	17	
37	3	26	3	1	10	16	17	24	50	51	29	48	12	6	23	
38	5	26	–	2	10	17	21	15	48	48	53	55	13	14	17	
39	2	15	7	2	12	17	22	18	61	55	61	49	10	12	28	
40	5	13	3	3	16	21	25	11	63	55	71	63	15	12	22	
41	6	22	4	3	20	33	24	32	70	66	78	57	8	13	26	
42	7	14	3	–	22	30	45	25	58	48	88	66	11	21	28	
43	2	24	3	2	37	19	45	22	88	65	67	56	10	25	9	
44	7	12	–	3	27	29	54	23	70	95	65	61	15	13	13	
45	17	27	4	2	47	41	57	37	84	49	70	60	16	22	19	
46	10	13	4	–	41	35	78	47	66	40	68	55	12	15	21	
47	19	20	2	1	37	50	64	49	83	52	59	41	11	26	16	
48	10	28	5	5	54	45	76	38	73	50	52	59	10	21	18	
49	12	22	5	2	51	53	67	44	61	49	45	53	8	25	20	
50	33	25	–	7	51	72	97	53	64	42	41	40	12	12	13	
51	15	23	3	2	40	72	66	52	45	35	48	42	16	19	12	
52	17	32	2	2	67	61	56	54	61	43	47	48	10	18	12	

Whooping-cough, Fever, and **Diarrhœa,** during the Four Years 1880–1883; and the Average Years 1840–1883, and from **Diphtheria** during the Twenty-four Years 1860–1883.

WHOOPING-COUGH.				FEVER.				DIARRHŒA.				WEEKLY AVERAGE in 44 Years, 1840-83.							
1880	1881	1882	1883	1880	1881	1882	1883	1880	1881	1882	1883	Small-pox.	Measles.	Scarlet Fever.	Diphtheria (24 years).	Whooping-cough.	Fever.	Diarrhœa.	
3438	1961	4647	1582	886	1196	1117	1081	3767	2988	2162	2644	19	31	47	10	46	38	48	Year.
1956	411	2224	458	218	185	314	270	153	170	169	192	23	28	38	9	62	38	13	March Qr.
901	428	1516	403	192	160	193	177	255	278	260	294	23	33	34	9	53	35	19	June „
346	393	610	341	240	274	197	242	2981	2339	1426	1879	14	26	49	9	31	37	138	Sept. „
235	729	297	380	236	577	413	392	378	201	307	279	16	35	67	12	36	43	24	Dec. „
																			Weeks.
120	33	103	31	22	10	24	25	10	17	12	15	23	40	49	10	53	40	13	- - 1
114	25	116	29	17	16	31	15	9	25	13	12	22	36	46	10	54	40	14	- - 2
140	31	120	26	11	16	20	20	14	12	11	18	25	33	46	9	59	38	13	- - 3
193	43	175	37	19	19	19	20	5	8	23	13	24	28	42	9	64	39	13	- - 4
248	39	194	35	23	9	26	19	11	16	15	19	25	26	38	10	66	38	14	- - 5
197	25	261	42	19	10	18	20	19	10	8	14	24	24	37	10	66	37	14	- - 6
171	26	205	35	23	20	18	30	14	11	11	15	24	22	37	9	63	38	13	- - 7
135	41	185	28	13	12	28	20	9	17	14	12	23	25	35	8	64	37	14	- - 8
155	35	184	42	14	9	21	18	14	13	7	12	23	24	34	9	63	35	14	- - 9
112	27	175	45	19	17	17	14	14	8	14	9	22	25	33	9	62	38	12	- - 10
114	27	157	33	10	20	27	21	14	8	13	18	21	26	30	9	62	38	12	- - 11
115	33	190	32	18	15	37	16	9	9	19	18	21	28	30	9	65	36	13	- - 12
142	26	159	43	10	12	28	32	11	16	9	17	21	30	32	10	68	38	12	- - 13
85	26	168	42	15	11	22	23	10	9	9	9	23	31	30	9	65	35	12	- - 14
111	41	155	36	16	19	24	20	11	14	9	8	23	31	31	8	65	36	12	- - 15
83	42	153	40	15	17	9	13	8	13	13	13	24	30	32	9	62	37	13	- - 16
78	37	129	35	13	12	15	12	12	10	14	19	24	31	30	10	59	36	12	- - 17
67	27	125	24	21	10	14	12	13	10	18	17	24	32	32	8	56	35	13	- - 18
89	30	124	43	8	9	8	12	13	13	14	11	22	33	32	9	57	33	12	- - 19
67	30	108	22	18	14	18	13	18	14	12	12	25	33	32	9	54	35	13	- - 20
76	31	123	27	14	15	20	12	17	13	15	10	25	34	35	8	54	34	14	- - 21
60	33	91	32	16	13	15	14	20	14	13	16	21	36	36	9	51	34	16	- - 22
48	27	88	23	13	7	15	12	16	22	28	27	22	36	37	9	47	34	18	- - 23
56	28	88	22	14	11	11	12	21	30	42	25	22	36	34	9	43	34	24	- - 24
37	33	85	28	14	10	10	8	32	44	32	55	21	35	39	10	42	32	34	- - 25
44	43	79	29	15	12	12	14	64	72	41	72	21	34	38	9	41	33	48	- - 26
30	37	80	30	16	14	15	11	93	135	73	167	18	34	40	8	39	33	76	- - 27
35	44	65	31	16	12	18	18	165	292	102	325	17	32	40	9	37	34	114	- - 28
36	45	58	28	16	17	11	11	202	449	118	351	17	32	40	9	37	35	158	- - 29
28	41	63	29	18	12	19	16	350	495	108	254	16	31	43	8	36	36	200	- - 30
33	22	57	23	20	14	14	7	367	297	118	168	14	31	40	8	33	33	198	- - 31
32	22	44	15	19	21	13	16	348	210	147	94	14	27	47	9	33	35	188	- - 32
24	28	52	26	20	19	12	12	265	141	164	119	14	28	46	8	29	36	175	- - 33
23	27	40	27	17	15	16	19	270	117	158	63	14	24	49	10	28	37	160	- - 34
25	18	30	27	23	14	9	23	232	57	153	74	13	23	50	10	28	39	143	- - 35
19	29	27	22	18	14	15	36	223	39	95	87	13	21	55	9	27	39	124	- - 36
17	22	38	30	24	24	18	31	214	40	78	62	12	20	58	10	27	41	103	- - 37
24	31	25	31	16	45	15	25	142	33	78	54	12	20	60	11	26	42	84	- - 38
20	27	31	22	17	53	22	17	110	34	34	61	11	20	67	10	26	42	70	- - 39
19	24	30	14	25	50	31	22	64	38	29	48	13	22	70	12	27	42	54	- - 40
17	32	23	22	27	36	30	28	66	26	48	26	13	23	73	12	26	42	45	- - 41
11	30	24	22	24	68	34	25	59	18	34	38	12	26	72	12	27	44	36	- - 42
24	29	18	25	21	54	35	30	28	19	25	31	13	26	75	10	27	45	29	- - 43
10	40	25	14	22	62	38	27	35	13	26	17	13	30	74	10	30	45	24	- - 44
17	43	13	19	22	39	37	39	21	18	17	27	16	34	71	11	30	43	20	- - 45
16	43	20	33	17	44	34	40	22	6	19	19	16	37	71	12	34	44	19	- - 46
15	50	21	29	15	50	32	35	18	10	17	17	15	39	70	13	35	44	16	- - 47
12	62	14	29	17	35	35	36	9	15	14	9	18	43	66	12	38	44	16	- - 48
29	69	24	43	9	33	37	28	16	13	17	14	18	43	62	12	43	44	15	- - 49
22	78	27	42	9	42	25	29	10	9	20	12	20	44	61	11	45	45	14	- - 50
27	96	38	42	14	36	26	32	15	11	22	11	20	45	54	12	48	42	13	- - 51
16	124	20	46	14	28	19	21	15	10	19	10	22	42	52	12	52	39	13	- - 52

TABLE 25.—**Temperature** at **Greenwich, Total Deaths,** and **Deaths** at **Seven groups of Ages,** in **London,** in each Week of the Year 1883.

POPULATION estimated to the middle of 1883 - -					3,955,814	115,667	399,523	1,196,626	1,324,277	671,192	233,625	14,904
Number of Week.	WEEK ENDING	TEMPERATURE.			AGES AT DEATH.							
		Mean.	Highest Reading.	Lowest Reading.	ALL AGES.	Under 1 Year.	1–5	5–20	20–40	40–60	60–80	80 and upwards.
	YEAR (of 52 Weeks)	° 49·4	° 84·8	° 20·6	80,578	19,487	14,065	5,410	10,669	13,480	14,253	3,214
	March Quarter	40·0	56·7	20·6	21,814	4,806	3,676	1,345	2,879	3,768	4,303	1,037
	June „	53·0	84·8	28·2	20,187	4,334	3,694	1,284	2,756	3,560	3,783	776
	September „	59·5	85·1	41·5	18,565	5,733	3,136	1,319	2,321	2,803	2,661	592
	December „	44·9	64·6	27·8	20,012	4,614	3,559	1,462	2,713	3,349	3,506	809
	1883.											
1	January 6	46·2	55·0	36·1	1556	337	269	111	208	275	292	64
2	„ 13	38·3	44·7	30·3	1567	370	278	87	223	265	277	67
3	„ 20	42·9	50·6	32·8	1663	365	281	113	216	297	322	69
4	„ 27	38·9	50·0	28·8	1548	321	271	103	193	283	284	93
5	February 3	40·3	52·1	29·2	1643	360	259	99	210	297	335	83
6	„ 10	42·7	53·1	33·4	1631	343	267	108	234	274	321	84
7	„ 17	42·9	54·4	30·9	1525	328	256	103	213	257	300	68
8	„ 24	42·8	55·0	32·0	1554	334	270	99	216	266	288	81
9	March 3	43·0	55·2	30·8	1590	379	268	88	201	269	314	71
10	„ 10	33·8	52·1	22·6	1648	371	262	94	233	291	327	70
11	„ 17	34·7	49·4	23·9	1854	416	321	99	241	302	388	87
12	„ 24	35·1	46·8	20·6	1887	417	336	115	218	307	406	88
13	„ 31	38·6	56·7	24·7	2148	465	338	126	273	385	449	112
14	April 7	48·8	69·1	28·4	1940	428	344	96	250	338	390	94
15	„ 14	44·0	59·3	28·2	1803	385	313	105	234	297	393	76
16	„ 21	48·0	66·0	35·0	1755	393	292	98	246	319	331	76
17	„ 28	45·2	60·1	31·7	1635	340	290	92	200	307	320	86
18	May 5	46·2	61·4	30·3	1504	291	249	97	246	265	298	58
19	„ 12	46·5	67·0	35·7	1653	338	307	97	237	290	301	83
20	„ 19	57·5	74·3	43·8	1530	292	292	95	216	282	299	54
21	„ 26	58·2	81·0	39·5	1518	320	298	106	187	276	283	48
22	June 2	58·1	74·4	40·8	1405	299	269	99	195	253	243	47
23	„ 9	58·0	75·0	44·8	1400	293	275	111	197	254	232	38
24	„ 16	58·1	77·2	41·5	1279	286	233	97	179	229	226	29
25	„ 23	56·2	74·4	40·4	1333	337	248	80	179	214	229	46
26	„ 30	63·2	84·8	49·3	1432	332	284	111	190	236	238	41
27	July 7	64·3	83·3	49·6	1521	456	259	116	183	212	238	57
28	„ 14	61·4	78·1	51·0	1736	724	300	103	174	199	187	49
29	„ 21	56·0	69·4	43·6	1781	701	283	108	185	246	220	38
30	„ 28	57·4	73·6	47·7	1605	582	270	93	179	212	228	41
31	August 4	60·6	76·6	46·6	1465	446	278	97	178	204	208	54
32	„ 11	59·4	72·3	49·7	1312	378	248	89	150	203	204	40
33	„ 18	62·3	83·3	46·3	1437	409	235	101	203	235	208	46
34	„ 25	64·0	85·1	44·8	1356	356	223	109	176	225	209	58
35	September 1	62·5	78·4	49·1	1292	334	222	113	164	201	214	44
36	„ 8	54·7	67·1	41·5	1257	366	203	91	181	210	172	34
37	„ 15	57·8	73·1	41·6	1260	347	209	93	190	207	179	35
38	„ 22	58·4	77·1	48·1	1286	339	211	103	182	212	191	48
39	„ 29	57·1	69·7	42·1	1257	295	195	103	176	237	203	48
40	October 6	47·7	58·3	40·3	1252	306	206	96	163	214	226	41
41	„ 13	51·4	62·1	40·6	1438	320	246	113	207	250	244	58
42	„ 20	51·3	64·6	39·1	1408	331	225	127	190	240	237	58
43	„ 27	50·9	62·9	36·7	1450	356	229	109	211	247	233	65
44	November 3	49·0	59·8	42·9	1440	346	242	98	206	251	241	56
45	„ 10	44·1	56·1	33·5	1556	371	267	119	218	256	265	60
46	„ 17	39·4	50·9	27·8	1681	407	316	118	217	277	282	64
47	„ 24	43·9	52·1	33·8	1670	367	314	113	220	275	317	64
48	December 1	46·3	56·2	36·6	1655	343	326	125	217	268	300	76
49	„ 8	37·8	53·2	28·4	1628	374	299	104	197	276	315	63
50	„ 15	44·0	54·2	32·9	1722	412	313	130	222	271	298	76
51	„ 22	40·9	50·7	33·2	1609	365	280	113	238	263	288	62
52	„ 29	40·0	49·2	31·5	1503	316	296	97	207	261	260	66

TABLE 26.—**Births** and **Deaths** Registered in **London**; and **Meteorology** at **Greenwich**, in each of the 52 Weeks of 1883.

No. of Week.	Week ending	Births. Total.	Males.	Femls.	Deaths. Total.	Males.	Femls	Mean Temperature of the Air.	Mean of the Highest Readings of the Thermometer.	Mean of the Lowest Readings of the Thermometer.	Dryness of Atmosphere.*	Fall of Rain in Inches.	Mean Hourly Amount of Horizontal Movement of the Air in each Week.†	Sun above Horizon in Hours.	Registered Sunshine in Hours.
	1883.							°	°	°	°		Miles.		
1	Jan. 6	3044	1538	1506	1556	831	725	46·2	49·5	42·0	86	0·42	13·9	55·3	4·7
2	„ 13	2808	1425	1383	1567	777	790	38·3	41·3	34·8	88	0·07	10·6	56·7	9·4
3	„ 20	2804	1416	1388	1663	869	794	42·9	47·4	36·8	95	0·56	10·5	58·4	0·6
4	„ 27	2670	1352	1318	1548	807	741	38·9	43·6	33·8	82	0·38	16·6	60·7	13·2
5	Feb. 3	2750	1375	1375	1643	822	821	40·3	46·2	35·0	87	0·83	20·8	63·3	11·8
6	„ 10	2888	1514	1374	1631	817	814	42·7	48·6	37·6	88	1·24	13·7	66·1	17·2
7	„ 17	2732	1354	1378	1525	766	759	42·9	48·5	37·4	81	0·64	16·7	69·2	13·8
8	„ 24	2759	1387	1372	1554	807	747	42·8	49·2	36·1	88	0·54	13·5	72·3	9·3
9	March 3	2773	1386	1387	1590	795	795	43·0	48·8	38·2	85	0·14	9·8	75·5	12·7
10	„ 10	2480	1304	1176	1648	882	766	33·8	42·1	26·9	77	0·15	15·9	78·7	33·9
11	„ 17	2771	1468	1303	1854	974	880	34·7	42·7	27·9	76	0·09	12·9	81·9	19·5
12	„ 24	2466	1250	1216	1887	941	946	35·1	41·8	30·1	79	0·32	17·1	85·2	18·9
13	„ 31	2714	1345	1369	2148	1089	1059	38·6	48·4	29·4	71	0·09	12·4	88·4	36·4
14	April 7	2928	1490	1438	1940	1008	932	48·8	61·6	35·7	72	0·00	8·8	91·7	52·0
15	„ 14	2598	1349	1349	1803	944	859	44·0	55·5	33·6	79	0·00	5·9	94·9	26·1
16	„ 21	2607	1329	1278	1755	907	848	48·0	57·8	40·3	71	0·58	12·1	98·0	22·5
17	„ 28	2514	1217	1297	1635	840	795	45·2	54·6	38·0	83	0·90	11·3	100·9	25·5
18	May 5	2545	1283	1262	1504	792	712	46·2	56·5	38·1	77	0·27	10·6	103·8	29·9
19	„ 12	2637	1335	1302	1653	868	785	46·5	54·7	39·5	90	1·13	11·4	106·6	15·0
20	„ 19	2407	1211	1196	1530	793	737	57·5	67·8	48·4	70	0·18	10·0	109·0	45·6
21	„ 26	2692	1383	1309	1518	806	712	58·2	70·4	46·3	72	0·35	7·1	111·4	57·0
22	June 2	2622	1322	1300	1405	754	651	58·1	71·1	45·7	70	0·00	7·9	113·2	50·8
23	„ 9	2608	1352	1256	1400	725	675	58·0	69·6	46·9	72	0·01	10·7	114·6	57·7
24	„ 16	2477	1275	1202	1279	658	621	58·1	69·9	48·0	76	0·17	8·6	115·5	30·5
25	„ 23	2513	1317	1196	1333	681	652	56·2	67·3	48·0	80	0·31	7·9	116·2	26·0
26	„ 30	2589	1263	1326	1432	753	679	63·2	75·3	53·9	81	0·86	10·5	115·7	36·0
27	July 7	2478	1284	1194	1521	774	747	64·3	76·7	53·2	72	0·12	9·6	114·9	56·2
28	„ 14	2534	1275	1259	1736	873	863	61·4	72·0	54·1	82	0·87	13·3	113·6	31·3
29	„ 21	2559	1316	1243	1781	906	875	56·0	64·9	48·1	80	0·44	12·2	112·0	22·2
30	„ 28	2631	1350	1281	1605	847	758	57·4	67·8	50·1	82	0·41	11·6	109·9	26·3
31	August 4	2505	1253	1252	1465	738	727	60·6	72·5	51·9	78	0·22	7·8	107·4	24·7
32	„ 11	2261	1162	1099	1312	653	659	59·4	69·5	52·7	78	0·28	15·5	104·8	34·9
33	„ 18	2652	1398	1254	1437	756	681	62·3	74·1	52·3	73	0·07	13·0	101·9	42·4
34	„ 25	2450	1242	1208	1356	699	657	64·0	78·9	51·7	75	0·01	5·2	98·9	45·8
35	Sept. 1	2448	1249	1199	1292	693	599	62·5	73·7	54·3	80	0·36	11·2	96·0	24·2
36	„ 8	2434	1214	1220	1257	653	604	54·7	63·8	48·3	88	0·81	17·1	92·6	22·1
37	„ 15	2483	1256	1232	1260	661	599	57·8	68·3	50·9	88	1·52	7·4	89·6	26·1
38	„ 22	2470	1258	1212	1286	659	627	58·4	69·0	49·8	85	0·24	4·5	86·5	27·3
39	„ 29	2399	1234	1165	1257	662	595	57·1	66·1	50·2	79	0·92	14·7	83·1	37·4
40	October 6	2387	1221	1166	1252	637	615	47·7	54·2	42·3	83	0·66	16·4	80·0	20·3
41	„ 13	2504	1280	1224	1438	758	680	51·4	58·8	44·8	92	0·00	4·7	76·9	5·3
42	„ 20	2370	1217	1153	1408	722	686	51·3	58·1	45·5	80	1·03	19·2	73·7	25·3
43	„ 27	2724	1366	1358	1450	753	697	50·9	57·9	44·5	87	0·16	13·1	70·7	14·3
44	Nov. 3	2623	1310	1313	1440	720	720	49·0	53·4	45·4	91	0·02	4·4	67·6	6·9
45	„ 10	2497	1269	1228	1556	805	751	44·1	50·6	37·9	87	1·00	14·4	64·7	13·7
46	„ 17	2633	1360	1273	1681	882	799	39·4	46·0	32·0	85	0·31	10·4	62·1	17·0
47	„ 24	2482	1310	1172	1670	834	836	43·9	49·9	37·8	83	0·71	17·9	59·7	15·4
48	Dec. 1	2423	1239	1184	1655	839	816	46·3	50·8	40·7	88	0·83	15·9	57·4	13·6
49	„ 8	2346	1237	1109	1628	819	809	37·8	41·9	33·6	80	0·05	16·6	55·9	8·0
50	„ 15	2540	1257	1283	1722	833	889	44·0	48·6	38·5	80	0·53	22·6	54·8	2·0
51	„ 22	2579	1307	1272	1609	828	781	40·9	44·1	36·8	85	0·09	16·9	54·0	2·1
52	„ 29	1847	945	902	1503	772	731	40·0	43·2	35·8	96	0·09	6·0	54·3	0·0

* The column headed "Dryness of Atmosphere" is the difference between the dew point temperature and air temperature. The mean dew point temperature, for any week, may be obtained by subtracting the number in the column headed "dryness" from the mean temperature in the same period. † By Robinson's Anemometer, adopted in place of Whewell's, which was used formerly.

TABLE 27.—**Greenwich Meteorological Elements** for the Year 1883. By J. GLAISHER, Esq., F.R.S.

1883. Months.	Mean Reading of the Barometer.	Temperature of the Air. Highest by Day.	Lowest by Night.	Range in Month.	Mean of all Highest.	Mean of all Lowest.	Mean Daily Range.	Mean for the Month.	Departure from Average of 112 Years. (1771–1883.)	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Weight of Vapour in a Cubic Foot of Air.	Mean additional Weight required for Saturation.	Mean Degree of Humidity. Saturation = 100.	Mean Weight of a Cubic Foot of Air.	Relative Proportion of Wind. N.	E.	S.	W.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	grs.		grs.							in.
January–	29·735	55·1	28·3	26·3	45·4	36·3	9·1	41·2	+4·7	37·6	·225	2·7	0·2	87	550	4	12	9	6	6·4	19	1·69
February	29·904	55·2	30·9	24·3	48·5	37·2	11·3	42·6	+3·9	38·8	·236	2·9	0·4	86	551	1	5	13	9	6·5	15	2·89
March –	29·749	56·7	20·6	36·1	44·1	29·3	14·8	36·1	−5·0	29·2	·160	1·8	0·5	76	553	11	9	1	10	5·8	14	0·78
April –	29·826	69·1	28·2	40·9	57·6	37·4	20·2	46·8	+0·7	39·4	·249	2·8	0·9	79	545	4	9	5	12	5·5	10	1·70
May –	29·784	81·0	30·3	50·7	63·7	43·5	20·2	53·1	+0·6	45·3	·293	3·4	1·1	76	538	9	5	7	10	5·7	9	1·71
June –	29·793	84·8	40·4	44·4	70·8	48·9	21·9	59·0	+0·8	51·3	·378	4·3	1·3	76	531	5	5	10	10	5·8	13	1·34
July –	29·688	83·3	43·6	39·7	70·6	51·3	19·3	59·9	−1·8	53·0	·402	4·5	1·3	78	528	4	1	8	18	6·5	16	1·99
August –	29·841	85·1	44·8	40·3	74·0	52·8	21·2	61·9	+1·0	54·1	·419	4·6	1·6	76	529	2	3	6	20	5·2	10	0·72
September	29·648	77·1	41·5	35·6	66·4	49·7	16·7	56·8	+0·3	52·4	·394	4·4	0·8	86	531	4	6	6	14	6·1	17	3·82
October –	29·800	64·6	36·7	27·9	57·1	44·5	12·6	50·4	+0·9	46·2	·313	3·6	0·6	86	541	5	5	7	14	6·9	14	1·59
November	29·659	56·2	27·8	28·4	49·6	37·8	11·8	43·8	+1·5	39·7	·244	2·8	0·5	86	546	3	3	8	16	5·8	21	2·84
December	29·983	54·2	28·4	25·8	44·1	36·2	7·9	40·5	+1·4	36·4	·215	2·5	0·5	85	556	8	4	4	15	8·1	15	0·83
Means	29·784	68·5	33·5	35·0	57·7	42·1	15·6	49·4	+0·8	43·6	·295	3·4	0·8	82	542	60	67 Sums.	81	154	6·2	173 Sum	21·90 Sum

TABLE 28.—METEOROLOGICAL TABLE FOR LONDON, 1883.

(Deduced from Observations, at Greenwich, under the Superintendence of the Astronomer Royal, and compiled from Quarterly Tables, furnished to the Registrar General by James Glaisher, Esq., F.R.S.)

Winter . . Jan., Feb., March. Spring . . April, May, June. Summer . . July, Aug., Sept. Autumn . . Oct., Nov., Dec.	Temperature of Air. Mean.	Temperature of Air. Diff. from Average of 112 Years.	Temperature of Air. Diff. from Average of 42 Years.	Temperature of Evaporation. Mean.	Temperature of Evaporation. Diff. from Average of 42 Years.	Temperature of Dew Point. Mean.	Temperature of Dew Point. Diff. from Average of 42 Years.	Air—Daily Range. Mean.	Air—Daily Range. Diff. from Average of 42 Years.	Elastic Force of Vapour. Mean.	Elastic Force of Vapour. Diff. from Average of 42 Years.	Weight of Vapour in a Cubic Foot of Air. Mean.	Weight of Vapour in a Cubic Foot of Air. Diff. from Average of 42 Years.	Degree of Humidity. Mean (Sat^{n} =100).	Degree of Humidity. Diff. from Average of 42 Years.	Reading of Barometer. Mean.	Reading of Barometer. Diff. from Average of 42 Years.	Weight of a Cubic Foot of Air. Mean.	Weight of a Cubic Foot of Air. Diff. from Average of 42 Years.	Rain. Mean.	Rain. Diff. from Average of 42 Years.	Reading of Thermometer on Grass. Number of Nights it was At or below 30°.	Reading of Thermometer on Grass. Number of Nights it was Between 30° and 40°.	Reading of Thermometer on Grass. Number of Nights it was Above 40°.	Reading of Thermometer on Grass. Lowest Reading at Night.	Reading of Thermometer on Grass. Highest Reading at Night.
1883.	°	°	°	°	°	°	°	°	°	in.	in.	grs.	gr.			in.	in.	grs.	grs.	Sum in.	in.	Sums.			°	°
YEAR .	49·4	+0·8	0·0	46·5	0·0	43·6	0·0	15·6	−0·2	·295	+0·004	3·4	0·0	82	0	29·784	+0·023	542	0	21·90	−0·69	78	164	123	14·3	56·9
First Quarter .	40·0	+1·2	+0·1	37·9	−0·1	35·2	−0·2	11·7	−0·1	·207	+0·001	2·4	0·0	83	+1	29·796	+0·033	552	0	5·36	+0·35	48	40	2	14·3	49·5
Second do. .	53·0	+0·7	+0·1	49·1	0·0	45·3	0·0	20·8	+0·8	·310	+0·003	3·5	0·0	77	0	29·801	+0·019	538	−1	4·75	−1·08	18	39	34	18·6	56·3
Third do. . .	59·5	−0·2	−0·7	56·1	−0·3	53·2	+0·1	19·1	−0·6	·405	0·000	4·5	−0·1	80	+2	29·726	−0·029	529	0	6·53	−0·12	0	18	74	32·3	56·9
Fourth do. . .	44·9	+1·3	+0·4	43·0	+0·4	40·8	+0·1	10·8	−1·0	·257	−0·001	3·0	−0·1	86	−2	29·814	+0·068	547	+1	5·26	−1·93	12	67	13	23·7	50·1

In this Table, + and − respectively signify that the numbers in the *preceding* column are *above* or *below* the average to the extent of the quantities to which these signs are prefixed.

TABLE 29.—**Number of Houses, &c.** supplied by the several **London Water Companies** in each MONTH of the Year 1883; also the **Average Daily Supply of Water** in GALLONS by the several COMPANIES in each MONTH. (Compiled from Returns furnished by the several Companies during the Year.)

COMPANIES.	NUMBER OF HOUSES, &c. SUPPLIED IN											
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Total Houses supplied –	635,652	645,838	647,315	649,037	650,708	652,987	654,540	656,435	658,735	660,659	662,427	664,065
FROM THAMES - - - - -	302,672	312,340	313,094	313,934	314,866	316,005	316,640	317,748	318,817	319,757	320,559	321,228
FROM LEA AND FROM OTHER SOURCES -	332,980	333,498	334,221	335,103	335,842	336,982	337,900	338,687	339,918	340,902	341,868	342,837
FROM THAMES.												
CHELSEA - - - - - -	31,846	31,888	31,929	31,996	32,059	32,083	32,184	32,274	32,349	32,430	32,498	32,544
WEST MIDDLESEX - - -	61,806	61,910	61,961	62,114	62,326	62,650	62,748	62,930	62,950	63,055	63,245	63,370
SOUTHWARK AND VAUXHALL -	89,525	98,724	98,956	99,159	99,352	99,618	99,618	100,042	100,319	100,531	100,700	100,854
GRAND JUNCTION - - -	46,384	46,472	46,604	46,731	46,839	47,007	47,131	47,336	47,576	47,828	47,980	48,130
LAMBETH - - - - -	73,111	73,346	73,644	73,934	74,290	74,647	74,959	75,186	75,623	75,913	76,136	76,330
FROM LEA AND OTHER SOURCES.												
NEW RIVER - - - - -	137,993	138,080	138,177	138,403	138,450	138,650	139,028	139,157	139,479	139,781	140,076	140,353
EAST LONDON - - - -	137,537	137,807	138,296	138,728	139,200	139,719	140,153	140,602	141,336	141,698	142,020	142,273
KENT - - - - - -	57,450	57,611	57,748	57,972	58,192	58,613	58,719	58,928	59,103	59,423	59,772	60,211

COMPANIES.	AVERAGE DAILY SUPPLY OF WATER IN GALLONS DURING THE MONTHS OF											
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Total Quantities supplied –	133,542,670	130,782,815	132,889,836	138,994,662	143,642,561	159,499,809	159,066,559	158,684,758	152,806,840	145,569,677	141,836,118	137,796,953
FROM THAMES - - - - -	65,462,419	63,312,781	63,840,180	68,443,444	70,898,698	79,636,093	79,397,454	78,676,793	76,167,782	72,956,980	71,979,400	69,758,507
FROM LEA AND FROM OTHER SOURCES -	68,080,251	67,470,034	69,049,656	70,551,218	72,743,863	79,863,716	79,669,105	80,007,965	76,639,058	72,612,697	69,856,718	68,038,446
FROM THAMES.												
CHELSEA - - - - - -	8,625,300	8,706,900	8,955,000	9,489,900	9,733,700	10,581,500	10,542,900	10,677,900	10,010,900	9,784,200	9,722,000	9,153,200
WEST MIDDLESEX - - - -	10,972,244	11,081,070	10,992,005	11,682,121	12,254,636	13,945,793	13,774,335	13,525,876	12,751,537	12,269,054	11,997,639	11,910,047
SOUTHWARK AND VAUXHALL -	18,875,159	17,563,882	17,325,011	18 872,410	19,691,310	21,885,571	22,373,559	21,420,702	22,054,173	21,543,654	21,261,597	20,381,832
GRAND JUNCTION - - - -	12,302,416	11,814 929	12,153,993	13,380,713	13,437,252	15 103,029	15,276,860	15,263,015	14,614,872	13,888,072	13,716,664	13,670,714
LAMBETH - - - - -	14,687,300	14,146,000	14,414,171	15,018,300	15,781,800	18,120,200	17,429,800	17,789,300	16,736,300	15,472,000	15,281,500	14,642,714
FROM LEA AND OTHER SOURCES.												
NEW RIVER - - - - - -	26,043,000	25,177,000	26,068,000	27,405,000	28,325,000	31,834,000	31,514,000	31,475,000	30,395,000	28,798,000	27,136,000	26,437,000
EAST LONDON - - - - -	33,712,500	33,739,000	34,433,860	33,981,910	34,722,287	37,363,917	37,579,352	37,501,651	36,416,152	34,177,074	33,305,719	32,230,697
KENT - - - - - -	8,324,751	8,554,034	8,547,796	9,164,308	9,696,576	10,665,799	10,575,753	11,031,314	9,827,906	9,637,623	9,414,999	9,370,749

Note.—The quantities of water in the above Table include the supply for various purposes other than for domestic consumption.

TABLE **30.—Average Number of Houses, &c.** supplied by the several **London Water Companies** in the Year 1883; the **Average Daily Supply of Water** in GALLONS and in CUBIC METRES* for ALL PURPOSES, in GALLONS for DOMESTIC PURPOSES, and the NUMBER of GALLONS supplied to each HOUSE. (Compiled from Monthly Returns furnished by the several Water Companies during the Year.)

WATER COMPANIES.	AVERAGE NUMBER of HOUSES supplied during the Year.	AVERAGE DAILY SUPPLY OF WATER DURING THE YEAR IN				
		Gallons.†	Cubic Metres.†	Gallons used for Domestic purposes (estimated).	Gallons used for Domestic purposes daily to each House.	
					1882.	1883.
Total	653,200	144,592,772	656,951	118,566,073	183	182
FROM THAMES	315,638	71,710,878	325,815	58,802,920	188	186
FROM LEA AND OTHER SOURCES	337,562	72,881,894	331,136	59,763,153	179	177
FROM THAMES.						
CHELSEA	32,173	9,665,284	43,914	7,925,533	239	246
WEST MIDDLESEX	62,589	12,263,030	55,717	10,055,685	157	161
SOUTHWARK AND VAUXHALL	98,948	20,270,738	92,098	16,622,005	169	168
GRAND JUNCTION	47,168	13,718,544	62,330	11,249,206	242	238
LAMBETH	74,760	15,793,282	71,756	12,950,491	181	173
FROM LEA AND OTHER SOURCES.						
NEW RIVER	138,969	28,383,917	128,961	23,274,812	166	167
EAST LONDON	139,948	34,930,343	158,705	28,642,881	212	205
KENT	58,645	9,567,634	43,470	7,845,460	130	134
Columns	1.	2.	3.	4.	5.	6.

Note.—According to returns of the London Water Companies made to the Select Committee on East London Water Bills (Session 1867), it is estimated that during the year 1866 about 82 per cent. of the total supply of water for all purposes was for domestic use; this proportion has been applied in estimating the quantities for the year 1883 in column 4., showing the gallons probably used for domestic purposes.

The average daily quantity of water supplied by the London Companies during the year 1883 was 144,592,772 gallons (656,951 cubic metres, equal to about as many *tuns* by measure, *tons* by weight), of which about 118,566,073 gallons (538,700 cubic metres) were probably used for domestic purposes. The quantity used daily for domestic purposes was 181·5 gallons (82·5 decalitres) to each house, and 23·3 gallons (10·6 decalitres) to each person. The returns of the water companies include uninhabited as well as inhabited houses.

* A cubic metre is equal in volume to 35·3 cubic feet, or to 220·09668 imperial gallons. It is nearly equivalent to the old English *tun* of four hogsheads, holding 35·248 cubic feet. It is in general use on the Continent; and its volume of water weighs a metric ton, differing inconsiderably in weight from the ton in common use. It is equal to 100 decalitres. One decalitre equals 2·2009668 gallons.

† The quantities of water in columns 2. and 3. include the supply for various purposes other than for domestic consumption.

REPORT on the ANALYSIS of the WATERS supplied by the METROPOLITAN WATER COMPANIES during the several MONTHS of the YEAR 1883. By Professor FRANKLAND, D.C.L., F.R.S., &c.

Grove House, Pembridge Square, W.,
7th March 1884.

SIR,

I HAVE to report to you, upon the chemical examination of the water supplied to the inner, and portions also of the outer, circle of the Metropolis during the year ending December 1883.

Since I first commenced the regular analysis of monthly samples of the London waters in 1865, important changes have taken place both on the banks of the rivers from which the greater part of the supply is derived and also in the works of the respective companies to whom that supply is entrusted. In the year 1865 all the large towns in the basins of the Thames and Lea which were provided with a sewerage system, freely discharged their raw sewage into these rivers or their tributaries, and as each year added to the number of such towns, the amount of untreated sewage gaining access to the rivers was an ever increasing one. The water companies, on the other hand, being ill provided either with storage reservoirs or filtering appliances, were compelled to draw from the rivers in time of flood and the water so drawn was not, by their treatment, rendered even clear and colourless to the eye. Under these circumstances it was not surprising that chemical analysis frequently discovered an excessive proportion of organic matter in the water delivered to consumers.

In 1869 the Royal Commission on Water Supply, in summing up their conclusions as to the quality of the water supplied from the Thames basin, state :—
" That when efficient measures are adopted for excluding the sewage and other
" pollutions from the Thames and the Lea, and their tributaries, and for
" ensuring perfect filtration, water taken from the present sources will be
" perfectly wholesome, and of suitable quality for the supply of the Metropolis."
Although there have been great improvements made in the disposal of the sewage of many of the larger towns since 1869, yet none of these improvements have taken the form of sewage exclusion. It is sewage-purification that has been attempted and not sewage-exclusion. Indeed the expense involved in carrying out any scheme for excluding the sewage from the rivers is so great as to render such a plan practically impossible. The methods adopted for cleansing the sewage of the principal towns in the Thames Basin are chiefly the application of the sewage to land, either by way of irrigation or of intermittent downward filtration. In a few instances methods of chemical treatment are employed either alone or in conjunction with the first named methods. Irrigation and intermittent downward filtration, when properly carried out, yield equally good results, whilst the various methods of chemical treatment effect comparatively little improvement in the sewage, excepting so far as the coarser matters in suspension are concerned. The adoption of these several methods of purification contributes greatly to improvement in the appearance and even the chemical quality of the river waters ; yet it must not be forgotten that there is not one of these processes, even when carried out with the greatest care and efficiency, that offers any sort of guarantee against the admission into the Thames and Lea of noxious ingredients which may at any time be present in sewage, and which are capable of spreading zymotic disease. The chance of such morbific matter gaining access to the river waters is, by these processes of purification, no doubt diminished ; but in the interests of the public health, the fact ought not be ignored that there is at present no evidence whatever that these processes are effective either for the retention or destruction of zymotic poisons sometimes present in sewage. In the smaller towns and villages, comprising the greater portion of the population of the Thames basin, the sewage is generally allowed to collect in cesspits, the overflow from which usually communicates with the nearest stream or watercourse, whilst in other cases the street drains are utilised for conveying the sewage matters into the nearest running water. It thus appears that, notwithstanding the improvements in the disposal of town-drainage, the river Thames still receives much raw sewage matter, together with the affluents from the

sewage-works which have been constructed in many places. Indeed the task of banishing these and other objectionable poilutions from the river is an entirely hopeless one.

In dealing with the raw material thus supplied to them, very great improvements have been effected by the water companies ; these have consisted chiefly in an increased accommodation for storage and the construction of more efficient filtering appliances. The result of these improvements has been that water of much more uniform quality throughout the year, is now distributed, and that it is, in nearly all cases, clear and bright to the eye. Thus whilst in the year 1868, out of 84 samples of river water examined, there were only 48 clear and transparent, in the past year there were, out of the same number of samples, no less than 73 clear and transparent. Moreover of the 11 turbid samples in the past year, all, were only "slightly turbid," and none "very turbid" or "turbid"; whilst in 1868 out of 36 turbid samples, 20 were "slightly turbid," 9 "turbid," and 7 "very turbid." The occurrence of moving organisms amongst the suspended matters of these turbid waters is now much rarer than formerly. Thus in the year 1869 these organisms were seen 24 times or in 80 per cent. of the turbid samples, whilst last year they have only been discovered on six occasions, or in 55 per cent. of the turbid samples.

Nevertheless in wet seasons, when the rivers are in protracted flood, the water distributed in London generally contains a very large proportion of organic matter ; thus even as recently as 1880 the water supplied both from the Thames and the Lea contained a greater average proportion of organic matter than in any year since these analyses have been made. But even with the proportion of organic matter at its minimum there is no certainty that the water does not contain the germs of zymotic disease ; for, as I have already stated, there is still no guarantee against such morbific matters gaining access to the rivers, and there is nothing in the subsequent treatment to which the river water is subjected by the companies that will ensure the removal of matters of this description. It has been recently shown, that filtration through far greater thicknesses of sand than could be employed on the large scale by water companies is quite insufficient to remove those lower forms of living matter which, in their habits, we have good reason to believe, simulate the organisms causing zymotic disease. Indeed I am informed that several of the water companies themselves are now impressed with the necessity of ultimately abandoning the rivers Thames and Lea as sources of water-supply, and some of them have already completed works for utilizing subterranean waters which have undergone natural filtration through great thicknesses of gravel and sand, whilst others are sinking deep wells into the chalk. In the interest of the public health, it is to be hoped that works of this description will be continued and receive every encouragement.

During the year 1883 the average daily volume of water supplied to the inner circle of the Metropolis by the eight companies, amounted to 144,592,772 gallons. Although this quantity is upwards of three millions of gallons in excess of the previous year, yet the average consumption per head of population was almost exactly the same, amounting to 28·4 gallons per day as against 28·6 in 1882. Of this total supply, 9,567,634 gallons from deep-wells in the chalk were of uniformly good quality throughout the year, whilst the remainder, consisting of 71,710,878 gallons from the Thames, and 63,314,260 gallons from the Lea, was open to the before-mentioned objections urged against the river waters. The samples analysed were in all cases taken directly from the mains at places recommended by the companies themselves.

The temperature of each sample at the time of collection, was observed, and its appearance in a two-foot tube, has also been recorded ; whilst in the case of those samples found to be more or less turbid, the suspended matter deposited on standing was submitted to microscopical examination.

In Table A. the temperature of the waters as they issued from the companies' mains is recorded. In this respect the waters exhibited the following variations :—

The Thames water distributed by the Chelsea, West Middlesex, Southwark, Grand Junction, and Lambeth Companies varied in temperature from 3°·1 C. (37°·6 Fahr.) in March to 22°·0 C. (71°·6 Fahr.) in July.

The temperature of the water abstracted from the Lea and sent out by the New River and East London Companies showed a variation from 3°·4 C. (38°·1 Fahr.) in March to 20°·0 C. (68°·0 Fahr.) in July.

The deep-well water of the Kent Company varied in temperature from 3°·4 C. (38°·1 Fahr.) in March, to 15°·5 C. (59°·9 Fahr.) in June.

Thus the temperature of the river waters was subject to greater variation than that of the deep-well water, the latter remaining of an agreeable coolness in summer, when the river waters became warm and unpalatable.

Table B. shows the total amount of solid matters present in 100,000 parts by weight of each of the waters. A very large poportion of this solid matter consists of mineral salts, which are quite unobjectionable in drinking water, but as they render the water hard, they make it less suitable for washing and for most manufacturing purposes.

A small proportion of this solid matter, on the other hand, is organic. Small quantities of vegetable organic matter are not objectionable in drinking water, but the organic matter in river water which receives sewage may at any time become dangerous to health. The greatest amount of total solid matters was found in the deep-well water supplied by the Kent Company and by the Tottenham Local Board of Health, whilst the Colne Valley Company's water, although derived from the same source, contained but little more than one-third of that amount, and little more than one-half of that present in any of the river waters. This reduction in the amount of solid matters present in the water of the Colne Valley Company, is effected by the application of Clark's process of softening, which consists in adding to it a small quantity of slaked lime. The solid matters in the other Metropolitan waters would be reduced to about the same amount, by similar treatment.

Tables C. and D. record the proportion in which organic matter was present in the waters, as indicated by the amount of organic carbon and nitrogen found by combustion. The importance of these tables is obvious when it is remembered that the organic matter in the river water is, to no small extent, derived from animal sources, such as raw sewage, the effluent from sewage works, and the drainage from manured land. From these tables it will be seen that during an unusually large part of the year, the amount of organic matter in the river waters was exceptionally small, although the difference between the quality of the water in summer and winter was still sufficiently marked. The deep-well water, on the other hand, was not only superior to the river waters, when at their best, but maintained its good quality throughout the year.

Taking the mean proportion of organic impurity contained in the Thames water delivered in 1868 as 1,000, I find that in the subsequent years, 1883 included, the following proportions were present :—

Year.	Proportion of organic impurity present in Thames water as delivered in London.
1868	1,000
1869	1,016
1870	795
1871	928
1872	1,243
1873	917
1874	933
1875	1,030
1876	903
1877	907
1878	1,056
1879	1,165
1880	1,254
1881	993
1882	1,033
1883	850

It thus appears that in the past year, the water drawn from the Thames was of better average quality than in any previous year, excepting 1870, since these analyses have been made.

The water drawn from the Lea, and distributed by the New River and East London Companies was uniformly of better average quality than that from the Thames. The New River Company's supply was in every case superior to that of the East London Company.

Taking, as before, the mean proportion of organic impurity in the Thames water supplied to London in 1868 as 1,000, I find in that and the succeeding years, 1883 included, the following proportions in the Lea water delivered by the New River and East London Companies :—

Year.	Proportion of organic impurity present in Lea water as delivered in London.
1868	484
1869	618
1870	550
1871	604
1872	819
1873	693
1874	583
1875	751
1876	562
1877	596
1878	747
1879	947
1880	1,013
1881	765
1882	711
1883	620

These figures show that during the past year the condition of the water supplied from the Lea was better than in any of the previous years since 1877.

In the case of the deep-well waters supplied to London, the organic matter, when compared with the same standard, was :—

1868	254
1869	312
1870	246
1871	150
1872	221
1873	250
1874	287
1875	250
1876	246
1877	243
1878	323
1879	387
1880	393
1881	405
1882	409
1883	321

The proportion of organic matter present in the deep-well waters was thus but little more than one-half that in the Lea, and considerably less than one-half of that

in the Thames. The amount would have been still less, but for extensive alterations which were being made at the works of the Tottenham Local Board of Health, in consequence of which the deep-well waters had to be supplemented by water obtained from the mains of the East London Company. The execution of such alterations in deep-wells, which are in active use, is attended with considerable danger to the consumers, as was demonstrated some years since at Catherham, where the excrements of a workman suffering from a slight attack of typhoid fever gained access to the well and were the means of simultaneously communicating this disease to a large number of persons both in Caterham and in the town of Red Hill some eight miles distant. In the interest of the public health, such alterations should be carried on under medical supervision.

From a sanitary point of view the superiority of the deep-well over the river water is really much greater than a comparison of the above figures would indicate, for the thorough process of natural filtration, which the deep-well water has undergone in passing through a great thickness of porous strata, renders it extremely improbable that any of those suspended particles, which may become prejudicial to health, should have escaped removal.

Unfortunately the protection from pollution, which is afforded by the common law to rivers, is at present denied to subterranean waters. That the latter may now be polluted to an unlimited extent without remedy was shown by the judgment of Mr. Justice Pearson in an action, Ballard v. Tomlinson, recently heard in the Court of Chancery. It is most desirable that these invaluable subterranean sources of pure water should be carefully protected by law.

In Table E. is recorded the proportional amount of organic elements (organic carbon and organic nitrogen) in each of the waters the average amount of these elements contained in the Kent Company's water during the nine years ending December 1876 being taken as unity. This Table shows that the maximum, minimum, and average proportions of organic matter, as measured by this standard, present in the several waters, during 1883, were as follows :—

Sources.		Maximum.	Minimum.	Average.
Deep wells	Kent	1·5	0·9	1·1
	Colne Valley	1·5	1·0	1·2
	Tottenham	2·3	1·1	1·7
River Lea	New River	3·6	1·3	2·2
	East London	5·0	1·9	2·9
River Thames	Chelsea	4·7	2·0	3·1
	West Middlesex	5·7	2·0	3·7
	Southwark	6·6	1·9	3·6
	Grand Junction	5·3	2·4	3·4
	Lambeth	5·7	2·0	3·6

These figures clearly illustrate that the deep-well waters remain of nearly uniform purity throughout the year, whilst the river waters, although exceptionally free from excessive pollution during the past year, exhibit very marked fluctuations. Of the deep-well water that supplied by the Kent Company was the best, whilst of the river water the New River Company's supply was the best and that of the West Middlesex Company the worst, the Chelsea Company's supply ranking first amongst the Thames derived waters.

The following Table shows the maximum amount of organic pollution in the waters supplied from the Thames and Lea during the years 1868 to 1883 inclusive, the average of the samples in the month of greatest pollution being taken for comparison :—

MAXIMUM AMOUNT OF ORGANIC POLLUTION.

THAMES.			LEA.		
Year.	Elements of organic matter in parts per 100,000.	Months in which maximum pollution occurred.	Year.	Elements of organic matter in parts per 100,000.	Months in which maximum pollution occurred.
1868	·45	January.	1868	·27	February.
1869	·60	February.	1869	·33	February.
1870	·42	January.	1870	·30	January.
1871	·52	October.	1871	·22	February.
1872	·48	January & December.	1872	·39	December.
1873	·46	January.	1873	·33	January.
1874	·37	March.	1874	·21	March.
1875	·49	November.	1875	·28	November.
1876	·44	December.	1876	·24	March.
1877	·40	January.	1877	·30	January.
1878	·36	December.	1878	·26	June.
1879	·38	February.	1879	·33	July.
1880	·42	October.	1880	·33	February.
1881	·34	February.	1881	·34	February.
1882	·37	November.	1882	·26	December.
1883	·32	January.	1883	·24	December.

Thus the waters, both from the Thames and the Lea, were during the past year exceptionally free from excessive pollution. The recent improvement in this respect is especially marked in the case of the Thames, and is to be attributed to the action of the Board of Conservators and to the greater storage capacity with which the companies drawing from this river are now provided, as already pointed out.

Tables F. and G. require no comment.

Table H. records the total amount of combined nitrogen, which, after making a small deduction for the average quantity contained in rain water, constitutes the total evidence of both past and present contamination with nitrogenous organic matters which the waters have suffered. In river water, however, the quantity of total combined nitrogen is considerably reduced during the summer months by the presence of active vegetable and animal life, and it is, therefore, only in the autumn and winter months that it can be regarded as any measure of pollution. During the months of January, February, March, October, November, and December 1879, the average proportion of total combined nitrogen in 100,000 parts of Thames water was ·281 part, in 1880 ·276, ·260 in 1881, ·258 in 1882, and last year ·259 part. The continuous diminution, which has thus taken place, is doubtless due to the longer storage to which the water has in recent years been subjected.

In the same quantity of water supplied during the same months from the Lea, the average total combined nitrogen was ·310 part in 1879, ·284 in 1880, ·294 in 1881, ·304 in 1882, and ·329 in last year. No diminution, but on the contrary, rather an increase in the amount of total combined nitrogen has thus taken place.

The deep-well water distributed by the Kent and Colne Valley Companies and by the Tottenham Local Board of Health is not subject to the influence of animal or vegetable life, and the average of the total combined nitrogen may, therefore, be taken on the whole year. In 1879 it was ·317 part, ·294 in 1880, ·306 in 1881, ·294 in 1882, and ·353 part last year.

In Table I. is recorded the proportion of chlorine present in each of the waters. The figures show that no brackish or tidal water gained access to the companies' reservoirs.

Table K. shows the hardness of the various waters. By hardness is to be understood the weight of carbonate of lime, or its equivalent of other soap-destroying substances, present in 100,000 parts of water.

The average hardness of the Thames water delivered in London was 20°·8 in 1879, 20°·2 in 1880, 19°·8 in 1881, 20°·7 in 1882, and 19°·9 in 1883; of the Lea, 21°·4 in 1879, 20°·7 in 1880, 20°·8 in 1881, 21°·1 in 1882, and 20°·6 in last year; of the Kent Company's water, 28°·4 in 1879, 26°·6 in 1880, 28°·3 in 1881, 28°·5 in 1882, and 28°·0 in 1883; of the Colne Valley Company's water, 6°·3 in 1879, 6°·3 in 1880, 6°·2 in 1881, 5°·5 in 1882, and 7°·1 in 1883; and of the water sent out by the Tottenham Local Board of Health, 25°·6 in 1879, 22°·2 in 1880, 24°·1 in 1881, 25°·4 in 1882, and 22°·5 last year.

Soft water is absolutely necessary for the washing of linen, and if the water be not naturally so, it has to be softened by means of carbonate of soda, or soap, before being employed for that purpose. This process of softening with soap in the laundry entails an expense about 80 times as great as when the same is done on the large scale by a water company. All the water delivered in London, excepting that of the Colne Valley Company, was unsuitable for washing. The water drawn by the Colne Valley Company from the chalk is naturally hard, but is rendered soft by means of Clark's process before distribution.

Table L., lastly, records the average, for the past year, of each determination already specified, and thus summarizes the results of the analyses of the water supplied by each company during the year.

The results of my observations respecting the efficiency of the filtration to which the waters of the Thames and Lea were subjected by the various companies during the past year are contained in the following Table :—

Companies or Local Authorities.	Number of occasions when clear and transparent.	Number of occasions when slightly turbid.	Number of occasions when turbid.	Number of occasions when very turbid.
Thames.				
Chelsea	11	1	0	0
West Middlesex	11	1	0	0
Southwark	7	5	0	0
Grand Junction	9	3	0	0
Lambeth	11	1	0	0
Lea.				
New River	12	0	0	0
East London	12	0	0	0
Deep Wells.				
Kent	12	0	0	0
Colne Valley	12	0	0	0
Tottenham Local Board of Health	11	0	0	1

Thus, of the river water, only that sent out by the New River and East London Companies was uniformly clear.

As already pointed out, nothing furnishes more conspicuous proof of the improvements which have been effected in the companies' works than the comparative freedom from turbidity which the river waters now exhibit.

The deep-well water supplied by the Kent and Colne Valley Companies, and by the Tottenham Local Board of Health is uniformly clear and bright and requires no artificial filtration. The turbid sample of the Tottenham water was collected at a time when alterations were being made in the bore-hole, and is thus accounted for.

The sediment deposited by the turbid waters on standing, was in every case examined microscopically. During the past year these examinations revealed the presence of moving organisms in no less than three samples of the Southwark

Company's water, whilst one sample of the Chelsea, Grand Junction, and Lambeth Companies' waters respectively exhibited the same phenomenon, as did also the turbid sample of the Tottenham water.

In the following Table the results of these microscopic examinations, made during the past 15 years are collected :—

NUMBER of Occasions when MOVING ORGANISMS were found.

——	1869.	1870.	1871.	1872.	1873.	1874.	1875.	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.
Chelsea - -	3	2	2	3	2	5	4	4	1	0	2	0	0	0	1
West Middlesex -	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0
Southwark - -	8	1	4	1	2	5	5	7	5	3	0	0	0	0	3
Grand Junction -	4	1	1	2	3	5	7	3	3	3	1	3	3	0	1
Lambeth - -	5	0	4	6	3	4	5	4	1	1	0	2	1	1	1
New River - -	0	0	0	0	1	1	0	0	1	0	0	2	0	0	0
East London -	4	3	3	1	0	2	0	0	0	0	2	0	0	1	0
Kent - - -	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Colne Valley -	–	–	–	–	–	–	–	–	0	0	0	0	0	0	0
Tottenham - -	–	–	–	–	–	–	–	–	0	0	0	0	0	0	1

I am, &c.
E. FRANKLAND.

The Registrar General, &c., &c.
Somerset House, W.C.

Table A.

Temperature (in Centigrade degrees) of the Metropolitan Waters, as delivered from the different Companies' Mains.

	Companies or Local Authorities.	1883. Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
Inner Circle.	Thames.													
	Chelsea	8·7	7·4	4·8	10·4	15·2	16·1	17·7	17·0	16·0	13·4	9·0	7·7	11·9
	West Middlesex	9·1	6·8	4·8	12·1	13·2	19·4	22·0	19·5	18·2	13·6	7·3	6·6	12·7
	Southwark	9·1	6·4	4·0	12·4	18·0	18·0	22·0	19·8	18·1	14·0	7·6	5·8	12 9
	Grand Junction	8·0	6·2	3·5	11·5	12·4	18·0	20·8	18·8	17·5	13·0	11·1	5·5	12·2
	Lambeth	8·5	7·0	3·1	10·9	16·0	16·6	20·0	18·2	16·9	12·7	6·7	4·9	11·8
	Lea.													
	New River	8·8	5·9	4·9	10·7	11·0	18·3	20·0	18·0	17·2	13·0	6·8	6·7	11·8
	East London	8·0	5·8	3·4	11·0	11·2	17·9	19·5	18·3	17·3	12·9	6·4	5·1	11·4
	Deep Wells.													
	Kent	6·8	7·2	3·4	14·1	15·0	15·5	14·5	15·2	15·0	14·4	12·0	12·5	12·1
Outer Circle.	Colne Valley	11·1	—	—	—	—	—	—	—	—	—	—	—	—
	Tottenham Local Board	—	—	—	—	—	—	—	—	16·0	—	—	—	—

Table B.

Weight of Solid Matters in 100,000 parts of the Waters.

	Companies or Local Authorities.	1883. Jan.	Feb	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
Inner Circle.	Thames.													
	Chelsea	31·16	29·58	27·84	25·92	24·56	24·20	26·34	24·80	25·62	26·20	29·04	30·14	27·12
	West Middlesex	29·68	29·60	29·62	25·96	26·32	25·60	24·92	24·78	25·66	27·72	31·10	32·14	27·76
	Southwark	28·94	27·92	30·64	27·58	25·18	26·12	26·70	25·94	26·00	29·22	32·36	32·08	28·22
	Grand Junction	30·08	28·80	30·30	27·30	28·06	25·62	26·46	25·42	25·54	24·36	32·16	32·80	28·07
	Lambeth	30·14	30·20	32·10	28·98	28·46	27·20	27·48	25·94	27·76	30·72	30·84	32·82	29·39
	Lea.													
	New River	31·68	33·16	30·44	23·56	25·12	25·48	26·50	25·38	26·44	28·58	31·02	31·40	28·48
	East London	36·50	34·86	32·32	26·62	27·54	26·28	27·70	27·02	23·58	30·46	33·18	35·42	30·12
	Deep Wells.													
	Kent	44·86	46·16	43·00	38·78	40·04	39·72	43·86	40·26	38·40	38·68	43·44	43·30	41·71
Outer Circle.	Colne Valley	14·96	17·30	16·30	14·90	12·96	16·26	27·62	14·12	12·98	13·30	12·70	13·28	15·56
	Tottenham Local Board	41·14	46·00	43·70	38·00	37·00	36·40	36·12	36·70	37·62	41·52	37·34	36·92	39·04

Table C.

Organic Carbon in 100,000 parts of the Waters.

	Companies or Local Authorities.	1883. Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
Inner Circle.	Thames.													
	Chelsea	·228	·239	·207	·111	·104	·122	·101	·123	·102	·170	·169	·194	·156
	West Middlesex	·284	·288	·206	·111	·144	·119	·109	·124	·105	·215	·224	·285	·184
	Southwark	·347	·257	·115	·097	·145	·141	·161	·124	·127	·222	·223	·247	·184
	Grand Junction	·271	·231	·118	·108	·123	·127	·123	·137	·124	·174	·187	·242	·164
	Lambeth	·264	·290	·123	·110	·171	·134	·153	·135	·102	·209	·258	·263	·184
	Lea.													
	New River	·168	·182	·120	·080	·104	·086	·071	·078	·057	·086	·114	·151	·106
	East London	·192	·201	·160	·095	·148	·099	·092	·121	·111	·136	·160	·267	·148
	Deep Wells.													
	Kent	·069	·053	·040	·054	·043	·050	·048	·042	·049	·037	·057	·062	·050
Outer Circle.	Colne Valley	·070	·049	·056	·058	·046	·048	·043	·047	·047	·054	·059	·065	·053
	Tottenham Local Board	·081	·081	·077	·059	·076	·112	·042	·065	·069	·109	·071	·084	·077

TABLE D.

ORGANIC NITROGEN in 100,000 parts of the WATERS.

	COMPANIES OR LOCAL AUTHORITIES.	1883.												
		Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
Inner Circle.	THAMES.													
	Chelsea	·033	·041	·050	·032	·021	·019	·027	·032	·018	·025	·024	·040	·030
	West Middlesex	·044	·048	·043	·030	·032	·014	·019	·020	·015	·031	·051	·046	·033
	Southwark	·042	·050	·024	·016	·041	·019	·031	·016	·020	·024	·026	·041	·029
	Grand Junction	·043	·044	·034	·038	·031	·017	·031	·021	·027	·060	·023	·039	·034
	Lambeth	·027	·049	·032	·038	·041	·021	·020	·018	·019	·026	·029	·038	·030
	LEA.													
	New River	·033	·030	·028	·020	·021	·013	·019	·017	·018	·017	·014	·025	·021
	East London	·036	·034	·020	·019	·024	·014	·024	·020	·026	·036	·020	·030	·025
	DEEP WELLS.													
	Kent	·019	·016	·016	·015	·012	·015	·017	·017	·016	·017	·006	·010	·015
Outer Circle.	Colne Valley	·019	·022	·019	·010	·011	·014	·019	·019	·010	·014	·021	·020	·016
	Tottenham Local Board	·026	·023	·023	·008	·042	·022	·023	·017	·010	·023	·018	·027	·022

TABLE E.

PROPORTIONAL AMOUNT of ORGANIC ELEMENTS, that, in the KENT Company's Water during the Nine Years ending December 1876 being taken as 1.

	COMPANIES OR LOCAL AUTHORITIES.	1883.												
		Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
Inner Circle.	THAMES.													
	Chelsea	4·4	4·7	4·3	2·4	2·1	2·4	2·2	2·6	2·0	3·3	3·3	4·0	3·1
	West Middlesex	5·5	5·7	4·2	2·4	3·0	2·2	2·2	2·4	2·0	4·2	4·7	5·6	3·7
	Southwark	6·6	5·2	2·3	1·9	3·2	2·7	3·2	2·4	2·5	4·2	4·2	4·9	3·6
	Grand Junction	5·3	4·7	2·6	2·5	2·6	2·4	2·6	2·7	2·6	4·0	3·6	4·8	3·4
	Lambeth	4·9	5·7	2·6	2·5	3·6	2·6	2·9	2·6	2·0	4·0	4·9	5·1	3·6
	LEA.													
	New River	3·4	3·6	2·5	1·7	2·1	1·3	1·5	1·6	1·3	1·7	2·2	3·0	2·2
	East London	3·9	4·0	3·1	1·9	2·9	1·9	1·9	2·4	2·3	2·9	3·1	5·0	2·9
	DEEP WELLS.													
	Kent	1·5	1·2	0·9	1·2	0·9	1·1	1·1	1·0	0·9	0·9	1·1	1·2	1·1
Outer Circle.	Colne Valley	1·5	1·2	1·3	1·2	1·0	1·1	1·1	1·1	1·0	1·1	1·4	1·3	1·2
	Tottenham Local Board	1·8	1·8	1·7	1·1	2·0	2·3	1·1	1·4	1·3	2·1	1·6	1·9	1·7

TABLE F.

AMMONIA in 100,000 parts of the WATERS.

	COMPANIES OR LOCAL AUTHORITIES.	1883.												
		Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
Inner Circle.	THAMES.													
	Chelsea	0	·001	0	0	0	0	0	·001	0	·001	0	0	0
	West Middlesex	0	0	0	0	0	0	0	0	0	0	0	0	0
	Southwark	0	0	0	0	0	0	0	0	0	0	0	0	0
	Grand Junction	0	0	0	0	0	0	0	0	0	0	0	0	0
	Lambeth	0	0	0	0	0	0	0	0	0	0	0	0	0
	LEA.													
	New River	0	0	0	0	0	0	0	0	0	0	0	0	0
	East London	0	0	0	0	0	0	0	0	0	0	0	0	0
	DEEP WELLS.													
	Kent	0	0	0	0	0	0	0	0	0	0	0	0	0
Outer Circle.	Colne Valley	0	0	0	0	0	0	0	0	·002	0	·001	·010	·001
	Tottenham Local Board	·065	·048	·050	·055	·050	·060	050	·075	0	·030	·060	·055	·050

Table G.

Nitrogen as Nitrates and Nitrites in 100,000 parts of the Waters.

	Companies or Local Authorities.	1883. Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
Inner Circle.	Thames.													
	Chelsea	·199	·212	·214	·236	·181	·170	·196	·142	·156	·184	·206	·221	·193
	West Middlesex	·245	·227	·264	·244	·236	·175	·172	·157	·168	·148	·217	·216	·206
	Southwark	·186	·194	·329	·210	·196	·175	·160	·169	·163	·222	·232	·231	·206
	Grand Junction	·141	·177	·309	·241	·207	·180	·169	·172	·179	·123	·227	·258	·199
	Lambeth	·179	·204	·394	·269	·249	·205	·197	·190	·209	·237	·218	·234	·232
	Lea.													
	New River	·339	·312	·375	·294	·243	·192	·194	·188	·210	·255	·292	·288	·265
	East London	·308	·312	·320	·241	·227	·183	·185	·155	·137	·251	·259	·304	·240
	Deep Wells.													
	Kent	·514	·469	·376	·393	·465	·521	·477	·532	·473	·420	·473	·523	·470
Outer Circle.	Colne Valley	·467	·565	·548	·527	·496	·406	·384	·368	·371	·351	·376	·411	·439
	Tottenham Local Board	0	0	0	0	0	0	0	0	·303	·378	0	0	·057

Table H.

Total combined Nitrogen in 100,000 parts of the Waters.

	Companies or Local Authorities.	1883. Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
Inner Circle.	Thames.													
	Chelsea	·232	·254	·264	·268	·202	·189	·223	·175	·174	·210	·230	·261	·223
	West Middlesex	·289	·275	·307	·274	·268	·189	·191	·177	·183	·179	·268	·262	·238
	Southwark	·228	·244	·353	·226	·237	·194	·191	·183	·183	·246	·258	·272	·235
	Grand Junction	·184	·221	·343	·279	·238	·197	·200	·193	·206	·183	·250	·297	·233
	Lambeth	·206	·253	·426	·307	·290	·226	·217	·208	·228	·263	·247	·272	·262
	Lea.													
	New River	·372	·342	·403	·314	·264	·205	·213	·205	·228	·272	·306	·313	·286
	East London	·344	·346	·340	·260	·251	·197	·209	·175	·163	·287	·279	·334	·265
	Deep Wells.													
	Kent	·533	·485	·392	·408	·477	·536	·494	·549	·489	·437	·479	·533	·484
Outer Circle.	Colne Valley	·485	·587	·567	·537	·507	·420	·403	·387	·383	·365	·398	·439	·456
	Tottenham Local Board	·080	·067	·064	·055	·083	·071	·064	·079	·313	·426	·067	·072	·120

Table I.

Chlorine in 100,000 parts of the Waters.

	Companies or Local Authorities.	1883. Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
Inner Circle.	Thames.													
	Chelsea	1·6	1·5	1·4	1·5	1·6	1·5	1·5	1·6	1·6	1·6	1·6	1·5	1·5
	West Middlesex	1·5	1·5	1·4	1·5	1·7	1·6	1·5	1·5	1·5	1·5	1·6	1·5	1·5
	Southwark	1·5	1·4	1·5	1·5	1·7	1·5	1·5	1·6	1·6	1·5	1·5	1·5	1·5
	Grand Junction	1·5	1·5	1·5	1·5	1·7	1·5	1·5	1·6	1·5	1·5	1·5	1·5	1·5
	Lambeth	1·6	1·7	1·6	1·5	1·7	1·5	1·5	1·6	1·5	1·5	1·5	1·5	1·6
	Lea.													
	New River	1·7	1·7	1·6	1·6	1·6	1·5	1·6	1·6	1·5	1·5	1·6	1·7	1·6
	East London	1·9	1·8	1·7	1·7	1·8	1·7	1·7	1·7	1·7	1·6	1·8	1·7	1·7
	Deep Wells.													
	Kent	2·6	2·6	2·5	2·4	2·7	2·6	2·7	2·9	2·4	2·5	2·4	2·5	2·6
Outer Circle.	Colne Valley	1·7	1·8	1·8	1·8	1·8	1·7	1·8	1·7	1·7	1·6	1·7	1·7	1·7
	Tottenham Local Board	3·0	3·1	3·1	2·6	2·5	2·5	2·4	2·4	2·7	2·8	2·5	2·5	2·7

Table K.

Degrees of Hardness (1 deg. = 1 part of carbonate of lime, or its equivalent,) in 100,000 parts of the Waters.

	Companies or Local Authorities.	1883. Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
Inner Circle.	Thames.													
	Chelsea	20·6	20·0	19·4	18·0	16·9	18·9	19·1	18·9	18·0	18·6	20·3	20·6	19·1
	West Middlesex	20·3	19·1	20·6	17·7	18·9	20·0	18·6	19·1	19·4	19·7	21·5	22·1	19·7
	Southwark	19·1	18·9	21·5	19·4	18·0	19·7	19·7	19·1	20·0	20·9	22·4	22·1	20·1
	Grand Junction	20·3	18·6	21·2	18·6	18·6	20·0	19·4	19·4	18·9	18·3	22·4	22·7	19·9
	Lambeth	20·6	19·1	21·2	20·0	19·4	20·9	20·6	19·4	20·3	21·8	21·5	22·7	20·6
	Lea.													
	New River	21·2	20·9	21·2	18·6	18·6	20·3	20·3	18·9	19·7	20·6	22·1	22·1	20·4
	East London	22·7	22·4	22·4	18·0	19·1	20·3	19·7	19·4	17·4	21·8	22·7	24·2	20·8
	Deep Wells.													
	Kent	29·3	27·8	26·4	24·3	26·4	28·5	30·7	29·3	27·1	27·8	27·9	30·0	28·0
Outer Circle.	Colne Valley	5·7	6·6	6·6	5·6	5·7	8·6	20·3	4·6	5·7	5·6	5·1	5·1	7·1
	Tottenham Local Board	24·3	22·8	27·1	23·5	25·0	22·8	22·8	26·4	21·4	22·1	17·1	15·2	22·5

Table L.

Averages for 1883.

The numbers in this Table relate to 100,000 parts of each Water.

	Companies or Local Authorities.	Temperature in Centigrade Degrees.	Total Solid Matters.	Organic Carbon.	Organic Nitrogen.	Ammonia.	Nitrogen, as Nitrates and Nitrites.	Total combined Nitrogen.	Chlorine.	Total Hardness.	Proportional Amount of Organic Elements that in the Kent Company's Water during the 9 years ending Dec. 1876 being taken as 1.
Inner Circle.	Thames.	°									
	Chelsea	11·9	27·12	·156	·030	·000	·193	·223	1·5	19·1	3·1
	West Middlesex	12·7	27·76	·184	·033	0	·206	·238	1·5	19·7	3·7
	Southwark	12·9	28·22	·184	·029	0	·206	·235	1·5	20·1	3·6
	Grand Junction	12·2	28·07	·164	·034	0	·199	·233	1·5	19·9	3·4
	Lambeth	11·8	29·39	·184	·030	0	·232	·262	1·6	20·6	3·6
	Lea.										
	New River	11·8	28·48	·106	·021	0	·265	·286	1·6	20·4	2·2
	East London	11·4	30·12	·148	·025	0	·240	·265	1·7	20·8	2·9
	Deep Wells.										
	Kent	12·1	41·71	·050	·015	0	·470	·484	2·6	28·0	1·1
Outer Circle.	Colne Valley	—	15·56	·053	·016	·001	·439	·456	1·7	7·1	1·2
	Tottenham Local Board	—	39·04	·077	·022	·050	·057	·120	2·7	22·5	1·7

Note.—The numbers in these tables may be converted into grains per imperial gallon, by multiplying them by 7, and then moving the decimal point one place to the left.

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Fires in London during the Year 1883.

Captain Eyre M. Shaw, Chief Officer of the Metropolitan Fire Brigade, reported to the Metropolitan Board of Works that the number of fires attended during 1883 was 2144, showing an increase of 218 upon the number in the preceding year, and being 446 above the average in the ten years 1873–82. Nine per cent. of the fires attended in 1883 were described as serious, differing but slightly from the proportion in recent years. Life was seriously endangered at 112 of the fires in 1883, and in 29 cases life was lost. The lives of 176 persons were seriously endangered, of which 137 were saved and 39 lost. The numbers of lives lost by fires in London in the three preceding years were 33, 40, and 39 respectively. In order to facilitate the receipt of notice of fires, fire alarm circuits, with an aggregate of 151 call points, were in existence at the end of the year.

The establishment of the Metropolitan Fire Brigade at the end of the year was distributed at 55 engine, 12 street stations, 127 escape, and 4 floating stations. The number of fire engines at these stations was 169, showing an increase of 10 upon the number in the previous year; 3 were floating steam engines, 42 land steam engines, and 124 manual engines. The number of fire escapes and long scaling ladders was 147, showing an increase of 3 upon the number in the preceding year. The strength of the brigade was 588 of all ranks, including the chief officer and the superintendents, and exceeded by 12 the strength in the previous year. The number of firemen employed on the several watches kept up throughout the Metropolis was 108 by day and 253 by night. The cases of injury occurring in the brigade during the year were 99, against 78, 98, and 121 in the three previous years.

The quantity of water used for extinguishing fires during 1883 was rather less than 29 million gallons, or about 130,000 tons; about one half of this quantity was taken from the river, canals, and docks, and the remainder from the street pipes.

During the year there were 12 cases of short supply of water, 28 of late attendance of turncocks, and 4 of no attendance, making 44 cases in which the water arrangements were unsatisfactory, against 45 and 40 in the two preceding years.

Number of **Fires** and of **False Alarms** attended during the Thirteen Years 1871–83, and in each Month of 1883.

Years and Months.	Total Calls.	Fires.			Alarms.		
		Serious.	Slight.	Total.	False.	Chimney.	Total.
1871	2046	207	1635	1842	124	80	204
1872	1671	120	1374	1494	104	73	177
1873	1703	166	1382	1548	83	72	155
1874	1750	154	1419	1573	89	88	177
1875	1668	163	1366	1529	90	49	139
1876	1787	166	1466	1632	91	64	155
1877	1708	159	1374	1533	106	69	175
1878	1881	170	1489	1659	121	101	222
1879	1949	159	1559	1718	116	115	231
1880	2194	162	1709	1871	206	117	323
1881	2376	167	1824	1991	240	145	385
1882	2341	164	1762	1926	254	161	415
1883	2630	184	1960	2144	337	149	486
1883. January	240	22	182	204	23	13	36
February	204	13	154	167	19	18	37
March	236	13	184	197	23	16	39
April	199	18	139	157	29	13	42
May	198	10	149	159	26	13	39
June	241	17	171	188	41	12	53
July	222	17	161	178	34	10	44
August	241	14	177	191	40	10	50
September	200	15	151	166	27	7	34
October	206	10	160	170	27	9	36
November	204	18	148	166	27	11	38
December	239	17	184	201	21	17	38